Thirty-Third Annual Meeting

DETROIT, MICHIGAN

April 18–22, 1949

The 1949 convention of the Federation will be held in Detroit, Michigan, April 18–22. The scientific sessions of the six constituent Societies will begin at 9:00 A.M., Tuesday, April 19, in the Masonic Temple. They will continue through Friday afternoon, April 22. Sunday and Monday, April 17 and 18, will be devoted to meetings of the Society Councils and of the Federation Executive Committee. The Federation Joint Session will be Tuesday evening, April 19, at 8:00 P.M., in the auditorium of the Masonic Temple.

Registration will open at 9:00 A.M., Monday, April 18, at the Masonic Temple. The registration desks will be open until 10:00 P.M. Monday evening, and from 8:00 A.M. to 5:00 P.M. on Tuesday, Wednesday, Thursday and Friday. Since the scientific sessions begin at 9:00 A.M. on Tuesday, members are urged to complete registration on Monday, if possible. Members of any of the constituent Societies, guests, and other biologists and physicians who wish to attend the meetings may register. The registration fee will probably be $6.00. The official badge, issued at registration, must be worn to secure admission to the scientific sessions and other activities of the Convention. There will be a separate registration desk where ladies who are present as guests may register without charge. Programs, abstracts and tickets for various special functions will be on sale near the registration desk.

Headquarters Hotels will be the Book-Cadillac Hotel for the American Society for Experimental Pathology, the American Society of Biological Chemists and American Association of Immunologists; and the Statler Hotel for the American Physiological Society, the American Society for Pharmacology and Experimental Therapeutics and the American Institute of Nutrition.

Hotel Reservations should be made direct to the hotel of choice. Forms for this purpose have been distributed to members through the Society Secretaries and should be filled out and sent in at the earliest possible time. Hotel facilities in Detroit are adequate but the Headquarters Hotels (Book-Cadillac and Statler) cannot accommodate all of the Federation. Approximate rates will be from $3.50 to $6.00 for a single room, $6.00 to $9.00 for a double room and $6.50 to $10.50 for a twin-bed room.

An *Informal Mixer* is planned for Wednesday evening, April 20, from 10:00 P.M. to midnight. The official badge will be necessary for admission and all who have registered are cordially invited to attend. The Mixer will be in one of the Headquarters Hotels.

Exhibits. There will be no static demonstrations at the Convention. A commercial exhibit, held for the first time in Atlantic City in 1948, is planned again for the Detroit meeting. Exhibitors will be publishers and manufacturers of equipment, apparatus, supplies, chemicals and pharmaceuticals. The exhibit will be in the Masonic Temple.

Motion Pictures will be shown at one session, to be scheduled in the program. The title and abstract of the film must be submitted to the Society Secretaries. Only 16 mm. safety film can be shown; equipment for sound projection will be available.

Dinners and Luncheons. Facilities will be ample for holding group dinners and luncheons. Members desiring to schedule these special functions should make their plans early and inform the Federation Secretary (Dr. M. O. Lee, 2101 Constitution Ave., Washington 25, D. C.) of their needs by March 1, 1949. Specifications should include attendance expected, desired time, and whether or not motion pictures or slides will be shown.

Local Committee. The Local Committee includes Dr. Arthur H. Smith, (Wayne University School of Medicine, Detroit 1), Chairman, and Drs. E. F. Beach, O. H. Gaebler, F. W. Hartman, D. M. McGinty and J. M. Orten.

Placement Service. It is planned to have an office of the Placement Service of the Federation open in the Masonic Temple during the meetings. Those planning to use its services are requested to submit to the Federation Secretary, not later than April 1, 1949, a résumé of their education, training, experience, publications and type of position desired, together with any other pertinent information. Additional copies of this résumé should be brought to the Convention.

Programs, abstracts and additional announcements will appear in the March 1949 issue of FEDERATION PROCEEDINGS.

EXECUTIVE COMMITTEE 1948–1949

MAURICE B. VISSCHER, D. B. DILL, American Physiological Society
HANS T. CLARKE, OTTO A. BESSEY, American Society of Biological Chemists
CARL A. DRAGSTEDT, HARVEY B. HAAG, American Society for Pharmacology and Experimental Therapeutics
H. P. SMITH, FRIEDA S. ROBSCHEIT-ROBBINS, American Society for Experimental Pathology
E. M. NELSON, J. H. ROE, American Institute of Nutrition
MICHAEL HEIDELBERGER, JULES FREUND, American Association of Immunologists
H. P. SMITH, *Chairman*, Columbia University, College of Physicians and Surgeons, New York City
MAURICE H. SEEVERS, *Ex-Chairman*
M. O. LEE, *Federation Secretary*, 2101 Constitution Ave., Washington, D.C.

STANDING COMMITTEES

Promotion of Biological Research: A. C. IVY, *Chairman*; K. F. MEYER, EPHRAIM SHORR.

International Congresses: D. W. BRONK, Physiology, *Chairman*; A. J. CARLSON, Physiology; D. D. VAN SLYKE, Biochemistry; H. B. VAN DYKE, Pharmacology; PEYTON ROUS, Pathology; L. A. MAYNARD, Nutrition; J. J. BRONFENBRENNER, Immunology.

Placement Service: M. O. LEE, *Director*

Representatives; Council A.A.A.S.: G. PHILIP GRABFIELD, C. GLEN KING.

Federation Proceedings, Control Committee: WILLIAM H. CHAMBERS, *Chairman*, Physiology; ERIC G. BALL, Biochemistry; MCKEEN CATTELL, Pharmacology; MORTON MCCUTCHEON, Pathology; A. H. SMITH, Nutrition; A. P. LOCKE, Immunology.

FORMER EXECUTIVE COMMITTEES

Philadelphia, Dec. 28–31, 1913

S. J. MELTZER, *Chairman*, and A. J. CARLSON, *Secretary*, The Physiological Society. A. B. MACALLUM and P. A. SHAFFER, The Biochemical Society. T. SOLLMANN and J. AUER, The Pharmacological Society.

St. Louis, Dec. 27–30, 1914

G. LUSK, *Chairman*, and P. A. SHAFFER, *Secretary*, The Biochemical Society. T. SOLLMANN and J. AUER, The Pharmacological Society. R. M. PEARCE and G. H. WHIPPLE, The Pathological Society. W. B. CANNON and A. J. CARLSON, The Physiological Society.

Boston, Dec. 26–29, 1915

TORALD SOLLMANN, *Chairman*, and JOHN AUER, *Secretary*, The Pharmacological Society. THEOBALD SMITH and PEYTON ROUS, The Pathological Society. W. B. CANNON and C. W. GREENE, The Physiological Society. WALTER JONES and P. A. SHAFFER, The Biochemical Society.

New York, Dec. 27-30, 1916

SIMON FLEXNER, *Chairman*, and PEYTON ROUS, *Secretary*, The Pathological Society. W. B. CANNON and C. W. GREENE, The Physiological Society. WALTER JONES and STANLEY R. BENEDICT, The Biochemical Society. REID HUNT and J. AUER, The Pharmacological Society.

Minneapolis-Rochester, Dec. 27–29, 1917

FREDERIC S. LEE, *Chairman*, and CHARLES W. GREENE, *Secretary*, The Physiological Society. CARL L. ALSBERG, and STANLEY R. BENEDICT, The Biochemical Society. REID HUNT and L. G. ROWNTREE, The Pharmacological Society. LUDVIG HEKTOEN and HOWARD T. KARSNER, The Pathological Society.

Baltimore, April 24–26, 1918

CARL L. ALSBERG, *Chairman*, and STANLEY R. BENEDICT, *Secretary*, The Biochemical Society. REID HUNT and E. D. BROWN, The Pharmacological Society. H. GIDEON WELLS and HOWARD T. KARSNER, The Pathological Society. FREDERIC S. LEE and CHARLES W. GREENE, The Physiological Society.

Cincinnati, Dec. 29–31, 1919

A. S. LOEVENHART, *Chairman*, and E. D. BROWN, *Secretary*, The Pharmacological Society. W. G. MACCALLUM and HOWARD T. KARSNER, The Pathological Society. WARREN P. LOMBARD and CHARLES W. GREENE, The Physiological Society. STANLEY R. BENEDICT and VICTOR C. MYERS, The Biochemical Society.

Chicago, Dec. 28–30, 1920

WILLIAM H. PARK, *Chairman*, and HOWARD T. KARSNER, *Secretary*, The Pathological Society. WARREN P. LOMBARD and CHARLES W. GREENE, The Physiological Society. STANLEY R. BENEDICT and VICTOR C. MYERS, The Biochemical Society. A. S. LOEVENHART and EDGAR D. BROWN, The Pharmacological Society.

New Haven, Dec. 28–30, 1921

J. J. MACLEOD, *Chairman*, and CHARLES W. GREENE, *Secretary*, The Physiological Society. D. D. VAN SLYKE and VICTOR C. MYERS, The Biochemical Society. C. W. EDMUNDS and EDGAR D. BROWN, The Pharmacological Society, F. G. NOVY and WADE H. BROWN, The Pathological Society.

Toronto, Dec. 27–29, 1922

D. D. Van Slyke, *Chairman*, and Victor C. Myers, *Secretary*, The Biochemical Society. C. W. Edmunds and Edgar D. Brown, The Pharmacological Society. Howard T. Karsner and Wade H. Brown, The Pathological Society, J. J. R. Macleod and Charles W. Greene, The Physiological Society.

St. Louis, Dec. 27–29, 1923

C. W. Edmunds, *Chairman*, and Edgar D. Brown, *Secretary*, The Pharmacological Society. E. L. Opie and Wade H. Brown, The Pathological Society. A. J. Carlson and Charles W. Greene, The Physiological Society. Philip A. Shaffer and Victor C. Myers, The Biochemical Society.

Washington, Dec. 29–31, 1924

Aldred S. Warthin, *Chairman*, and E. B. Krumbhaar, *Secretary*, The Pathological Society. A. J. Carlson and Walter J. Meek, The Physiological Society, P. A. Shaffer and D. Wright Wilson, The Biochemical Society. John Auer and E. D. Brown, The Pharmacological Society.

Cleveland, Dec. 28–30, 1925

A. J. Carlson, *Chairman*, and Walter J. Meek, *Secretary*, The Physiological Society. H. C. Sherman and D. Wright Wilson, The Biochemical Society. John Auer and E. D. Brown, The Pharmacological Society. George H. Whipple and E. B. Krumbhaar, The Pathological Society.

Rochester, N. Y., April 14–16, 1927

E. C. Kendall, *Chairman*, and F. C. Koch, *Secretary*, The Biochemical Society. John Auer and E. D. Brown, The Pharmacological Society. W. H. Brown and E. B. Krumbhaar, The Pathological Society. J. Erlanger and W. J. Meek, The Physiological Society.

Ann Arbor, April 12–14, 1928

Carl Voegtlin, *Chairman*, and E. D. Brown, *Secretary*, The Pharmacological Society. David Marine and Carl V. Weller, The Pathological Society. Joseph Erlanger and Walter J. Meek, The Physiological Society. E. V. McCollum and D. Wright Wilson, The Biochemical Society.

Boston, Aug. 19–24, 1929

(The XIIIth International Physiological Congress)

Edward B. Krumbhaar, *Chairman*, and Carl V. Weller, *Secretary*, The Pathological Society. Joseph Erlanger and Walter J. Meek, The Physiological Society. E. V. McCollum and D. Wright Wilson, The Biochemical Society. Carl Voegtlin and E. D. Brown, The Pharmacological Society.

Chicago, March 26–29, 1930

Walter J. Meek, *Chairman*, and Alfred C. Redfield, *Secretary*, The Physiological Society. W. R. Bloor, and Howard B. Lewis, The Biochemical Society. Carl Voegtlin and E. D. Brown, The Pharmacological Society. William F. Petersen and Carl V. Weller, The Pathological Society.

Montreal, April 8–11, 1931

W. R. Bloor, *Chairman*, and H. B. Lewis, *Secretary*, The Biochemical Society. George B. Wallace and E. D. Brown, The Pharmacological Society. Frederick L. Gates and C. Phillip Miller, The Pathological Society. Walter J. Meek and Arno B. Luckhardt, The Physiological Society.

Philadelphia, April 27–30, 1932

George B. Wallace, *Chairman*, and V. E. Henderson, *Secretary*. The Pharmacological Society. Samuel R. Haythorn and C. Phillip Miller, The Pathological Society. Walter J. Meek and Arno B. Luckhardt, The Physiological Society. H. C. Bradley and Howard B. Lewis, The Biochemical Society.

Cincinnati, April 10–12, 1933

Peyton Rous, *Chairman*, and C. Philip Miller, *Secretary*, The Pathological Society. Arno B. Luckhardt and Frank C. Mann, The Physiological Society. H. C. Bradley and Howard B. Lewis, The Biochemical Society. Wm. deB. MacNider and V. E. Henderson, The Pharmacological Society.

New York, March 28–31, 1934

Arno B. Luckhardt, *Chairman*, Frank C. Mann, *Secretary*, and Alexander Forbes, *Treasurer*, The Physiological Society. W. M. Clark and H. A. Mattill, The Biochemical Society. W. deB. MacNider and V. E. Henderson, The Pharmacological Society. Carl V. Weller and C. Phillip Miller, The Pathological Society.

Detroit, April 10–13, 1935

W. M. Clark, *Chairman*, H. A. Mattill, *Secretary*, and C. H. Fiske, *Treasurer*, the Biochemical Society. Charles W. Greene and Frank C. Mann, The Physiological Society. R. A. Hatcher and E. M. K. Geiling, The Pharmacological Society. S. Burt Wolbach and Shields Warren, The Pathological Society.

Washington, March 25–28, 1936

V. E. Henderson, *Chairman*, E. M. K. Geiling, *Secretary*, and C. M. Gruber, *Treasurer*, The

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Pharmacological Society. FRANK C. MANN and ANDREW C. IVY, The Physiological Society. H. B. LEWIS and H. A. MATTILL, The Biochemical Society. OSKAR KLOTZ and SHIELDS WARREN, The Pathological Society.

Memphis, April 21–24, 1937

ALPHONSE R. DOCHEZ, *Chairman*, and SHIELDS WARREN, The Pathological Society. FRANK C. MANN and ANDREW C. IVY, The Physiological Society. HOWARD B. LEWIS and H. A. MATTILL, The Biochemical Society. V. E. HENDERSON and E. M. K. GEILING, The Pharmacological Society. D. R. HOOKER, *Secretary*.

Baltimore, March 30–April 2, 1938

WILLIAM T. PORTER, *Honorary President;* WALTER E. GARREY, *Chairman*, and ANDREW C. IVY, The Physiological Society. GLENN E. CULLEN and H. A. MATTILL, The Biochemical Society. ARTHUR L. TATUM and G. PHILIP GRABFIELD, The Pharmacological Society. C. PHILLIP MILLER and PAUL R. CANNON, The Pathological Society. D. R. HOOKER, *Secretary*.

Toronto, April 26–29, 1939

GLENN E. CULLEN, *Chairman*, and CHARLES G. KING, The Biochemical Society. ARTHUR L. TATUM and G. PHILIP GRABFIELD, The Pharmacological Society. C. PHILLIP MILLER and PAUL R. CANNON, The Pathological Society. WALTER E. GARREY and ANDREW C. IVY, The Physiological Society. D. R. HOOKER, *Secretary*.

New Orleans, March 13–16, 1940

E. M. K. GEILING, *Chairman*, and G. PHILIP GRABFIELD, The Pharmacological Society. ERNEST W. GOODPASTURE and PAUL R. CANNON, The Pathological Society. ANDREW C. IVY and PHILIP BARD, The Physiological Society. WILLIAM C. ROSE and CHARLES G. KING, The Biochemical SOCIETY. D. R. HOOKER, *Secretary*.

Chicago, April 15–19, 1941

SHIELDS WARREN, *Chairman*, and H. P. SMITH, The Pathological Society. THORNE M. CARPENTER and L. A. MAYNARD, The Institute of Nutrition. ANDREW C. IVY and PHILIP BARD, The Physiological Society. WILLIAM C. ROSE and CHARLES G. KING, The Biochemical Society. E. M. K. GEILING and G. PHILIP GRABFIELD, The Pharmacological Society. D. R. HOOKER, *Secretary*.

Boston, March 31, April 1, 2, 3, 4, 1942

ALBERT G. HOGAN, *Chairman*, and ARTHUR H. SMITH, The Institute of Nutrition. PHILIP BARD and CARL J. WIGGERS, The Physiological Society. RUDOLPH J. ANDERSON and ARNOLD K. BALLS, The Biochemical Society. E. M. K. GEILING and R. N. BIETER, The Pharmacological Society. JESSE L. BOLLMAN and H. P. SMITH, The Pathological Society. SHIELDS WARREN, *Ex-Chairman*. D. R. HOOKER, *Secretary*.

1943, 1944, 1945: The meetings scheduled for Cleveland were cancelled because of war conditions

PHILIP BARD, *Chairman*, and WALLACE O. FENN, The Physiological Society. E. A. DOISY and ARNOLD K. BALLS, The Biochemical Society. E. K. MARSHALL, JR. and RAYMOND N. BIETER, The Pharmacological Society. BALDUIN LUCKÉ and H. P. SMITH, The Pathological Society. LEONARD A. MAYNARD and ARTHUR H. SMITH, The Institute of Nutrition. JACQUES J. BRONFENBRENNER and ARTHUR F. COCA, The Association of Immunologists. D. R. HOOKER, *Secretary*.

Atlantic City, Mar. 11, 12, 13, 14, 15, 1946

PHILIP BARD, *Chairman*; WALLACE O. FENN, The Physiological Society. A. BAIRD HASTINGS and ARNOLD K. BALLS, The Bochemical Society. ERWIN E. NELSON and RAYMOND N. BIETER, The Pharmacological Society. BALDUIN LUCKÉ and H. P. SMITH, The Pathological Society. WILLIAM C. ROSE and H. E. CARTER, The Institute of Nutrition. JAQUES J. BRONFENBRENNER and ARTHUR F. COCA, The Association of Immunologists. D. R. HOOKER, *Secretary*.

Chicago, May 18–22, 1947

A. BAIRD HASTINGS, *Chairman*, and OTTO A. BESSEY, The Biochemical Society. MAURICE H. SEEVERS and HARVEY B. HAAG, The Pharmacological Society. PAUL R. CANNON AND FRIEDA S. ROBSCHEIT-ROBBINS, The Pathological Society. ARTHUR H. SMITH and H. E. CARTER, The Institute of Nutrition. MICHAEL HEIDELBERGER and ARTHUR F. COCA, The Association of Immunologists. WALLACE O. FENN and MAURICE B. VISSCHER, The Physiological Society. WILLIAM H. CHAMBERS, *Secretary*.

Atlantic City, March 15–19, 1948

MAURICE H. SEEVERS, *Chairman*, and HARVEY B. HAAG, *Secretary*, The Pharmacological Society. DOUGLAS H. SPRUNT AND FRIEDA S. ROBSCHEIT-ROBBINS, The Pathological Society. R. M. BETHKE AND H. E. CARTER, The Institute of Nutrition. LLOYD D. FELTON AND ARTHUR F. COCA, The Association of Immunologists. WALLACE O. FENN AND MAURICE B. VISSCHER, The Physiological Society. HANS T. CLARKE AND OTTO A. BESSEY, The Biochemical Society. WILLIAM H. CHAMBERS, *Secretary*.

FEDERATION BY-LAWS

BY-LAWS

Adopted at the Washington Meeting, 1936 and amended at the Boston Meeting, 1942

1. The Presidents and Secretaries of the Constituent Societies, the Chairman of the Executive Committee of the preceding year and the Federation Secretary shall form the Executive Committee of the Federation.

2. The Chairmanship of the Executive Committee shall be held in turn by the Presidents of the Constituent Societies, who shall succeed one another annually in the order of seniority of the Societies.

3. The Executive Committee shall appoint annually from the membership of the Federation a secretary-treasurer, to be known as the Federation Secretary.

4. The Federation Secretary shall: (a) Keep the minutes of the Executive Committee and distribute copies to the Secretaries of the Constituent Societies. (b) Make arrangements for the Annual Meeting with the Local Committee, with the approval of the Executive Committee. (c) Print in convenient combined form and distribute to the membership of the Federation the programs of the Constituent Societies as received from their respective Secretaries. (d) Undertake such other duties to be decided upon from time to time by the Executive Committee, as do not conflict with the complete autonomy of the Constituent Societies.

5. The Executive Committee shall control all monies in the hands of the Federation Secretary, who shall make an annual report to the Executive Committee for audit and approval. The expenses of the Federation Secretary, as authorized by the Executive Committee, shall be the first charge on such monies and if insufficient for the purpose the Executive Committee shall prorate such expenses to the Constituent Societies of the Federation in proportion to their respective memberships.

The Executive Committee may appropriate Federation monies annually for the uses of Local Committees and for the uses of other authorized Committees but in the latter cases an audit of expenditures shall be made and approved before such committees are discharged.

6. The Executive Committee shall determine the place of the Annual Meeting, and the time shall be determined by the Local Committee, preferably within the period of March fifteenth to May first.

7. The local Committee at the place of meeting of the Federation shall charge such fee for registration as may be approved by the Executive Committee. The monies thus collected shall be used to defray the expenses of the Local Committee and the remainder, after such expenses have been met, shall be turned over to the Federation Secretary.

8. The Executive Committee shall consider measures of advantage to the Federation as a whole. Any Constituent Society may refer similar measures to the Executive Committee. No action, however, shall be taken by the Executive Committee unless specifically authorized by all the Constituent Societies.

9. The Chairman of the Executive Committee may appoint committes when the purposes of such committees have been approved by all the Constituent Societies of the Federation. Such committees shall be appointed for a term of one year, but may be continued and their members reappointed. Such committees shall report in writing to the Executive Committee, which shall in turn report thereon to the Constituent Societies either for information or recommendation. The Secretaries of the Constituent Societies shall report the recommendations of their respective Societies to the Executive Committee for final action.

10. All individuals whose names appear on the program by invitation or introduction and those registering from any recognized biological laboratory may be enrolled as Associate Members of the Federation for that Annual Meeting. Such Associate Members may enjoy all the privileges of the Annual Meeting except that of voting.

11. No person may present orally more than one paper during all of the scientific sessions of the Constituent Societies at the time of the Annual Meeting except upon invitation of the Executive Committee or a Council. Papers must be submitted to the Secretary of the Society of which the proposer is a member. The proposer may request transfer to another program, but this may only be done with the consent of the Secretary of the Society concerned. Any Secretary who regards any paper submitted to him as better suited to the program of another Society may arrange this transfer with the Secretary of the Society concerned, if it be possible. Such transfer shall be indicated on the program.

12. Abstracts not to exceed two hundred and fifty words in length, of papers approved for presentation at all of the scientific sessions of all the Constituent Societies at the Annual Meeting, shall receive publication in the *Federation Proceedings*.

13. A Control Committee, consisting of at least one representative of each Constituent Society as designated by the several Councils, shall have editorial control over the *Federation Proceedings* which shall be financed as required by an annual

assessment of all the members of each Constituent Society.

14. The Control Committee shall have power to choose certain additional papers presented at the Annual Meetings and from other sources, including material heretofore published in the Federation Yearbook, for publication in the Federation Proceedings.

PLACEMENT SERVICE

The Federation maintains a service to act as a medium of communication between persons seeking positions for teaching or research and institutions that wish to fill vacancies in these sciences.

The service does not undertake to recommend or to pass judgment upon applicants. It aims merely to serve as a clearing-house for such information as above stated and to bring into touch with one another candidates for positions and vacancies to be filled.

The Placement Service is being reorganized in line with the recommendations of the Federation Committee for its study, and to utilize certain of the facilities and forms of the Office of Scientific Personnel of the National Research Council. Individuals, whether members of the Federation or not, Universities, other institutions and organizations desiring to avail themselves of the Service may receive such information as is available. By action of the Executive Committee in 1947, a registration fee of one dollar is required of each applicant for a position.

All communications should be addressed to: Dr. M. O. Lee, Director, Placement Service, 2101 Constitution Ave., Washington 25, D. C.

THE AMERICAN PHYSIOLOGICAL SOCIETY

Founded December 30, 1887; Incorporated June 2, 1923

OFFICERS, 1948–1949

President—MAURICE B. VISSCHER, University of Minnesota, Minneapolis.

President-elect—CARL J. WIGGERS, Western Reserve University, Cleveland, Ohio.

Past-President—WALLACE O. FENN, University of Rochester School of Medicine and Dentistry, Rochester, N. Y.

Council—MAURICE B. VISSCHER, CARL J. WIGGERS, WALLACE O. FENN, EUGENE M. LANDIS, Harvard Medical School, Boston, Mass.; W. F. HAMILTON, University of Georgia School of Medicine, Augusta; H. C. BAZETT, University of Pennsylvania School of Medicine, Philadelphia; D. B. DILL (Secretary-Treasurer), Army Chemical Center, Md.

Executive Secretary—M. O. LEE, 2101 Constitution Ave., Washington, D. C.

Board of Publication Trustees—ANDREW C. IVY, Chairman (1946–1949), R. F. PITTS (1948–1950), FRANK C. MANN (1948–1951).

Representative on the Division of Biology and Agriculture of the National Research Council—FRANCIS O. SCHMITT (1945–1949).

Representative on the Division of Medical Sciences of the National Research Council—HALLOWELL DAVIS (1947–1950).

Representative on the Council of the American Association for the Advancement of Science—J. H. BODINE, LEIGH CHADWICK.

Historian—WALTER J. MEEK.

Contributing Editor to Scientific Monthly—JOHN FIELD II.

PAST OFFICERS

Organization Meeting, December 30, 1887

S. WEIR MITCHELL, *President*

H. N. MARTIN, *Secretary*

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MELTZER, President; A. J. CARLSON, Secretary; J. ERLANGER, Treasurer; W. B. CANNON, F. S. LEE, Councilors. **1914** W. B. CANNON, President; A. J. CARLSON, Secretary; J. ERLANGER, Treasurer; F. S. LEE, S. J. MELTZER, Councilors. **1915** W. B. CANNON, President; C. W. GREENE, Secretary; J. ERLANGER, Treasurer; W. E. GARREY, W. H. HOWELL, J. J. R. MACLEOD, W. J. MEEK, Councilors. **1916** W. B. CANNON, President; C. W. GREENE, Secretary; J. ERLANGER, Treasurer; W. E. GARREY, W. H. HOWELL, J. J. R. MACLEOD, W. J. MEEK, Councilors. **1917** F. S. LEE, President; C. W. GREENE, Secretary; J. ERLANGER, Treasurer; W. B. CANNON, W. H. HOWELL, J. J. R. MACLEOD, W. J. MEEK, Councilors. **1918** F. S. LEE, President; C. W. GREENE, Secretary; J. ERLANGER, Treasurer; W. B. CANNON, W. H. HOWELL, J. J. R. MACLEOD, W. J. MEEK, Councilors. **1919** W. P. LOMBARD, President; C. W. GREENE, Secretary; J. ERLANGER, Treasurer; W. B. CANNON, Y. HENDERSON, J. J. R. MACLEOD, W. J. MEEK, Councilors. **1920** W. P. LOMBARD, President; C. W. GREENE, Secretary; J. ERLANGER, Treasurer; W. B. CANNON, J. J. R. MACLEOD, Y. HENDERSON, C. J. WIGGERS, Councilors. **1921** J. J. R. MACLEOD, President; C. W. GREENE, Secretary; J. ERLANGER, Treasurer; J. A. E. EYSTER, Y. HENDERSON, C. J. WIGGERS, A. J. CARLSON, Councilors. **1922** J. J. R. MACLEOD, President; C. W. GREENE, Secretary; J. ERLANGER, Treasurer; Y. HENDERSON, C. J. WIGGERS, A. J. CARLSON, J. A. E. EYSTER, Councilors. **1923** A. J. CARLSON, President; C. W. GREENE, Secretary; J. ERLANGER, Treasurer; C. J. WIGGERS, A. B. LUCKHARDT, J. A. E. EYSTER, J. R. MURLIN, Councilors. **1924** A. J. CARLSON, President; W. J. MEEK, Secretary; C. K. DRINKER, Treasurer; A. B. LUCKHARDT, J. A. E. EYSTER, J. R. MURLIN, W. E. GARREY, Councilors. **1925** A. J. CARLSON, President; W. J. MEEK, Secretary; C. K. DRINKER, Treasurer; J. A. E. EYSTER, J. R. MURLIN, W. E. GARREY, JOSEPH ERLANGER, Councilors. **1926** J. ERLANGER, President; W. J. MEEK, Secretary; A. FORBES, Treasurer; J. R. MURLIN, W. E. GARREY, A. B. LUCKHARDT, C. J. WIGGERS, Councilors. **1927** J. ERLANGER, President; W. J. MEEK, Secretary; A. FORBES, Treasurer; W. E. GARREY, A. B. LUCKHARDT, C. J. WIGGERS, R. GESELL, Councilors. **1928** J. ERLANGER, President; W. J. MEEK, Secretary; A. FORBES, Treasurer; A. B. LUCKHARDT, C. J. WIGGERS, R. GESELL, A. J. CARLSON, Councilors. **1929** W. J. MEEK, President; ALFRED C. REDFIELD, Secretary; A. FORBES, Treasurer; C. J. WIGGERS, R. GESELL, A. J. CARLSON, J. R. MURLIN, Councilors. **1930** W. J. MEEK, President; ARNO B. LUCKHARDT, Secretary; A. FORBES, Treasurer; R. GESELL, A. J. CARLSON, J. R. MURLIN, E. G. MARTIN, Councilors. **1931** W. J. MEEK, President; ARNO B. LUCKHARDT, Secretary; ALEXANDER FORBES, Treasurer; A. J. CARLSON, J. R. MURLIN, E. G. MARTIN, JOHN TAIT, Councilors. **1932** ARNO B. LUCKHARDT, President; FRANK C. MANN, Secretary; ALEXANDER FORBES, Treasurer; E. G. MARTIN, W. J. MEEK, J. R. MURLIN, JOHN TAIT, Councilors. **1933** ARNO B. LUCKHARDT, President; FRANK C. MANN, Secretary; ALEXANDER FORBES, Treasurer; HERBERT S. GASSER, ERNEST G. MARTIN, W. J. MEEK, JOHN TAIT, Councilors. **1934** CHARLES W. GREENE, President; FRANK C. MANN, Secretary; ALEXANDER FORBES, Treasurer; HERBERT S. GASSER, ARNO B. LUCKHARDT, W. J. MEEK, JOHN TAIT, Councilors. **1935** FRANK C. MANN, President; ANDREW C. IVY, Secretary; ALEXANDER FORBES, Treasurer; Charles H. BEST, HERBERT S. GASSER, ARNO B. LUCKHARDT, W. J. MEEK, Councilors. **1936** FRANK C. MANN, President; ANDREW C. IVY, Secretary; WALLACE O. FENN, Treasurer; CHARLES H. BEST, PHILIP BARD, HERBERT S. GASSER, ARNO B. LUCKHARDT, Councilors. **1937** WALTER E. GARREY, President; ANDREW C. IVY, Secretary; WALLACE O. FENN, Treasurer; CHARLES H. BEST, PHILIP BARD, HERBERT S. GASSER, ARNO B. LUCKHARDT, Councilors. **1938** WILLIAM T. PORTER, Honorary President; WALTER E. GARREY, President; ANDREW C. IVY, Secretary; WALLACE O. FENN, Treasurer; ARNO B. LUCKHARDT, CHARLES H. BEST, PHILIP BARD, HERBERT S. GASSER, Councilors. **1939** ANDREW C. IVY, President; PHILIP BARD, Secretary; WALLACE O. FENN, Treasurer; CHARLES H. BEST, HERBERT S. GASSER, ARNO B. LUCKHARDT, MAURICE B. VISSCHER, Councilors. **1940** ANDREW C. IVY, President; PHILIP BARD, Secretary; CARL J. WIGGERS, Treasurer; CHARLES H. BEST, HERBERT S. GASSER, ARNO B. LUCKHARDT, MAURICE B. VISSCHER, Councilors. **1941** PHILIP BARD, President; CARL J. WIGGERS, Secretary; HALLOWELL DAVIS, Treasurer; CHARLES H. BEST, ARNO B. LUCKHARDT, MAURICE B. VISSCHER, HIRAM E. ESSEX, Councilors. **1942, 1943, 1944, 1945** PHILIP BARD, President; WALLACE O. FENN, Secretary; HALLOWELL DAVIS, Treasurer; CHARLES H. BEST, MAURICE B. VISSCHER, HIRAM E. ESSEX, W. F. HAMILTON, Councilors. **1946** WALLACE O. FENN, President; MAURICE B. VISSCHER, Secretary; D. B. DILL, Treasurer; CHARLES H. BEST, HIRAM E. ESSEX, W. F. HAMILTON, H. C. BAZETT, Councilors. **1947** WALLACE O. FENN, President; MAURICE B. VISSCHER, Secretary; D. B. DILL, Treasurer; Eugene M. LANDIS, HIRAM E. ESSEX, W. F. HAMILTON, H. C. BAZETT, Councilors.

CONSTITUTION

I

1. This Society shall be named "THE AMERICAN PHYSIOLOGICAL SOCIETY, INCORPORATED."

2. The Society is instituted to promote the advance of Physiology and to facilitate personal intercourse between American Physiologists.

II

1. The Society shall consist of members and honorary members.

2. Any person who has conducted and published meritorious original researches in Physiology and who is a resident of North America shall be eligible for membership in the Society.

3. Members who have been relieved by the Council of the payment of the annual assessment shall retain all the rights of members.

4. Distinguished men of science who have contributed to the advance of Physiology shall be eligible for election as honorary members of the Society. Honorary members shall pay no membership fee. They shall have the right of attending the meetings of the Society, and of taking part in its scientific discussions, but they shall have no vote.

III

1. The management of the Society shall be vested in a Council consisting of a President-elect, President, Past-President for the previous year, and four other members. The President-elect and one member of the Council shall be chosen by ballot at each annual meeting. The President-elect shall automatically assume the duties of President at the adjournment of the annual meeting following his or her election. The four additional members shall be elected for terms of four years and shall not be eligible to succeed themselves. A person who has once been President shall not be eligible for reelection as President-elect. The Council shall have the power to elect its Secretary-Treasurer from among its own members. It shall also have the power to appoint and to compensate an Executive Secretary of the Society, who shall not be a voting member of the Council but shall assist it in carrying on the functions of the Society, including the receipt and disbursement of funds under the direction of the Council. If the annual meeting is not held all the members of the Council shall continue in office until their successors are chosen in the prescribed manner and succession.

2. The Council shall have the power to fill all interim vacancies that may occur in its membership or in any Committee or board of the Society except those for which other provisions have been made.

IV

1. At least a fortnight before the annual meeting the Secretary shall send to each member a notice of the place and time of each meeting, and shall make such other announcements as the Council shall direct.

2. The annual assessment shall be determined by the Council, and shall be due in advance at the time of the annual meeting. No allocation or disbursement of funds of the Society shall be made except upon prior approval of the Council. Appropriations shall be made by the Council for the conduct of the necessary and appropriate business of the Society.

3. Any member whose assessment is two years in arrears shall cease to be a member of the Society, unless at the next annual meeting he shall be reinstated by special vote of the Society; and it shall be the duty of the Treasurer to inform the Secretary that he may notify the said delinquent of his right to appeal to said meeting.

4. Any member who has retired because of illness or age may, upon application to the Council be relieved from payment of the annual assessment.

V

1. Meetings of the Society for the conduct of business and the presentation of papers and demonstrations shall be held annually except for national emergencies or other exceptional circumstances when the Council may cancel the proposed meeting. The time and place of such meetings shall be determined by the Council in consultation with the Executive Committee of the Federation of American Societies for Experimental Biology.

2. Special meetings may be held at such times and places as the Council may determine.

VI

1. Proposed amendments to the Constitution must be brought up at one meeting for preliminary discussion and approval by a majority vote and cannot be adopted except by a two-thirds vote at a business session at the next annual meeting. Notice of such changes shall be sent to all members at least two weeks prior to the meeting at which they are scheduled for adoption.

2. At all business meetings of the Society twenty-five members shall form a quorum.

3. By-laws for the conduct of the Society may be adopted, altered, or repealed at any business meeting by two-thirds vote of the ballots cast.

VII

1. The Council may, from the names of the candidates proposed in writing by at least two members of the Society, nominate candidates for election to membership. The names of the candidates so nominated and a statement of their qualifications for membership signed by their proposers shall be available for inspection during the business sessions of the Society at which their election is considered. The candidates may be balloted for at any session of the same meeting and a majority vote shall elect. If an annual meeting is not

held, the Council shall elect the candidates to membership subject to Society approval at the next annual meeting.

2. Honorary members shall be proposed by the Council, and shall be elected by a majority ballot of the members present at an annual business session of the Society.

VIII

1. If a majority of the Council shall decide that the interests of the Society require the expulsion of a member, the Secretary shall send a notice of this decision to each member at least two weeks before the next annual meeting. At this meeting the Secretary shall, on behalf of the Council, propose the expulsion; and if two-thirds of the members present vote for it, the member shall be expelled, and his assessment for the current year shall be returned to him, and he shall cease to be a member of the Society.

IX

1. The official organs of the Society shall be the American Journal of Physiology, the Physiological Reviews and such other publications as the Society shall establish. These the Society shall own and they shall be managed according to the provisions of Article X.

X

1. The President of the Society shall appoint, in consultation with the Council and subject to the approval of the Society, three members of the Society to serve as members of a Board of Publication Trustees.

2. The initial appointments shall be for one, two and three years. Thereafter, each member shall be appointed for three years, and shall be eligible for one immediate reappointment. He may be subsequently reappointed, but only after the lapse of at least one year between reappointments.

3. The Board of Publication Trustees shall be vested with full power of the Society to control and manage, both editorially and financially, all of the publications owned in whole or in part by the Society; to appoint editorial boards; to appoint and compensate a Managing Editor; and to control all publication funds, none of which, however, may be diverted from support of publications of the Society except by consent of the Council.

4. The Board of Publication Trustees shall make a full report to the Council at each annual meeting of the financial condition and publication policy of the Journals or other publications.

BY-LAWS

1. All papers read before the Society shall be limited to a length of ten minutes. No person may orally present more than one paper. In case of joint authorship the name of the individual who will orally present the paper shall stand first.

2. Abstracts in duplicate, not to exceed two hundred and fifty words in length, of all papers to be presented at the annual meeting of the Society shall be required by the Secretary for publication in the Federation Proceedings, in accordance with rules approved by the Council.

3. The Council shall upon the request of twenty-five members call a regional meeting of the Society at any time and place, for the reading of papers and the promotion of personal intercourse. Such a request shall be made in writing at least six weeks before the proposed date of meeting. Such meeting shall be held in accordance with the Constitution and By-laws of the Society, and if the regular officers of the Society cannot be present the President shall appoint a committee from among the petitioners to conduct the meeting. The Committee through a Secretary chosen by them shall forward an account of the scientific proceedings of the meeting to the official Secretary of the Society for insertion in the minutes.

4. No general business of the Society shall be transacted at such regional meetings.

AMERICAN SOCIETY OF BIOLOGICAL CHEMISTS, INCORPORATED

Founded December 6, 1906; Incorporated September 12, 1919

OFFICERS, COMMITTEES AND REPRESENTATIVES FOR 1948—1949

President—HANS T. CLARKE, College of Physicians and Surgeons, Columbia University, New York, N. Y.

Vice-President—CARL F. CORI, Washington University School of Medicine, St. Louis, Mo.

Secretary—OTTO A. BESSEY, University of Illinois College of Medicine, Chicago, Ill.

Treasurer—E. A. EVANS, JR., University of Chicago, Chicago, Ill.

Council—ARNOLD KENT BALLS, OTTO A. BESSEY, CARL F. CORI, HANS T. CLARKE, E. A. EVANS, JR., A. BAIRD HASTINGS, J. MURRAY LUCK.

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Representative to the American Documentation Institute—ATHERTON SEIDELL.

Representatives to the National Research Council—Division of Biology and Agriculture, CLIVE M. MCCAY; Division of Medical Sciences, WILLIAM C. STADIE.

Historian—PHILIP A. SHAFFER.

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1907 RUSSELL H. CHITTENDEN, President; J. J. ABEL, Vice-President; W. J. GIES, Secretary; L. B. MENDEL, Treasurer; W. JONES, W. KOCH, J. MARSHALL, T. B. OSBORNE, Councilors. **1908** JOHN J. ABEL, President; OTTO FOLIN, Vice-President; WM. J. GIES, Secretary; L. B. MENDEL, Treasurer; A. B. MACALLUM, A. P. MATHEWS, F. G. NOVY, Councilors. **1909** OTTO FOLIN, President; T. B. OSBORNE, Vice-President; WM. J. GIES, Secretary; L. B. MENDEL, Treasurer; J. J. ABEL, P. A. LEVENE, G. LUSK, Councilors. **1910** THOMAS B. OSBORNE, President; L. B. MENDEL, Vice-President; A. N. RICHARDS, Secretary; WALTER JONES, Treasurer; A. B. MACALLUM, A. P. MATHEWS, V. C. VAUGHAN, Councilors. **1911** LAFAYETTE B. MENDEL, President; A. B. MACALLUM, Vice-President; A. N. RICHARDS, Secretary; WALTER JONES, Treasurer; WM. J. GIES, A. S. LOEVENHART, P. A. SHAFFER, Councilors. **1912** ARCHIBALD B. MACALLUM, President; G. LUSK, Vice-President; A. N. RICHARDS, Secretary; WALTER JONES, Treasurer; H. P. ARMSBY, L. B. MENDEL, H. G. WELLS, Councilors. **1913** ARCHIBALD B. MACALLUM, President; G. LUSK, Vice-President; P. A. SHAFFER, Secretary; D. D. VAN SLYKE, Treasurer; H. P. ARMSBY, L. B. MENDEL, H. G. WELLS, Councilors. **1914** GRAHAM LUSK, President; C. L. ALSBERG, Vice-President; P. A. SHAFFER, Secretary; D. D. VAN SLYKE, Treasurer; J. J. ABEL, A. B. MACALLUM, T. B. OSBORNE, Councilors. **1915** WALTER JONES, President; C. L. ALSBERG, Vice-President; P. A. SHAFFER, Secretary; D. D. VAN SLYKE, Treasurer; OTTO FOLIN, G. LUSK, L. B. MENDEL, Councilors. **1916** WALTER JONES, President; F. P. UNDERHILL, Vice-President; S. R. BENEDICT, Secretary; D. D. VAN SLYKE, Treasurer; OTTO FOLIN, A. B. MACALLUM, P. A. SHAFFER, Councilors. **1917** CARL L.

ALSBERG, President; A. P. MATHEWS, Vice-President; S. R. BENEDICT, Secretary; H. C. BRADLEY, Treasurer; L. J. HENDERSON, P. A. SHAFFER, F. P. UNDERHILL, Councilors. **1918** CARL L. ALSBERG, President; A. P. MATHEWS, Vice-President; S. R. BENEDICT, Secretary; H. C. BRADLEY, Treasurer; W. J. GIES, ANDREW HUNTER, E. V. MCCOLLUM, Councilors. **1919** STANLEY R. BENEDICT, President; D. D. VAN SLYKE, Vice-President; V. C. MYERS, Secretary; H. C. BRADLEY, Treasurer; ANDREW HUNTER, E. V. MCCOLLUM, L. B. MENDEL, Councilors. **1920** STANLEY R. BENEDICT, President; D. D. VAN SLYKE, Vice-President; V. C. MYERS, Secretary; H. C. BRADLEY, Treasurer; OTTO FOLIN, WALTER JONES, L. B. MENDEL, Councilors. **1921** DONALD D. VAN SLYKE, President; P. A. SHAFFER, Vice-President; V. C. MYERS, Secretary; H. C. BRADLEY, Treasurer; S. R. BENEDICT, OTTO FOLIN, WALTER JONES, Councilors. **1922** DONALD D. VAN SLYKE, President; P. A. SHAFFER, Vice-President; V. C. MYERS, Secretary; W. R. BLOOR, Treasurer; S. R. BENEDICT, H. C. BRADLEY, A. P. MATHEWS, Councilors. **1923** PHILIP A. SHAFFER, President; H. C. SHERMAN, Vice-President; V. C. MYERS, Secretary; W. R. BLOOR, Treasurer; H. C. BRADLEY, ANDREW HUNTER, A. P. MATHEWS, Councilors. **1924** PHILIP A. SHAFFER, President; HENRY C. SHERMAN, Vice-President; D. WRIGHT WILSON, Secretary; WALTER R. BLOOR, Treasurer; OTTO FOLIN, ANDREW HUNTER, VICTOR C. MYERS, Councilors. **1925** HENRY C. SHERMAN, President; EDWARD C. KENDALL, Vice-President; D. WRIGHT WILSON, Secretary; WALTER R. BLOOR, Treasurer; OTTO FOLIN, LAFAYETTE B. MENDEL, PHILIP A. SHAFFER, Councilors. **1926** EDWARD C. KENDALL, President; ELMER V. MCCOLLUM, Vice-President; FRED C. KOCH, Secretary; GLENN E. CULLEN, Treasurer; J. B. COLLIP, EDWARD A. DOISY, ALBERT P. MATHEWS, Councilors. **1927** E. V. MCCOLLUM, President; W. R. BLOOR, Vice-President; D. WRIGHT WILSON, Secretary; G. E. CULLEN, Treasurer; E. A. DOISY, F. C. KOCH, D. C. VAN SLYKE, Councilors. **1928** E. V. MCCOLLUM, President; W. R. BLOOR, Vice-President; D. WRIGHT WILSON, Secretary; G. E. CULLEN, Treasurer; WM. M. CLARK, F. C. KOCH, D. D. VAN SLYKE, Councilors. **1929** W. R. BLOOR, President; H. C. BRADLEY, Vice-President; H. B. LEWIS, Secretary; G. E. CULLEN, Treasurer; W. M. CLARK, C. L. A. SCHMIDT, P. A. SHAFFER, Councilors. **1930** W. R. BLOOR, President; H. C. BRADLEY, Vice-President; H. B. LEWIS, Secretary; G. E. CULLEN, Treasurer; W. M. CLARK, P. A. SHAFFER, D. W. WILSON, Councilors. **1931** H. C. BRADLEY, President; W. M. CLARK, Vice-President; H. B. LEWIS, Secretary; C. H. FISKE, Treasurer; W. C. ROSE, P. A. SHAFFER, D. W. WILSON, Councilors. **1932** H. C. BRADLEY, President; W. M. CLARK, Vice-President; H. B. LEWIS, Secretary; C. H. FISKE, Treasurer; P. E. HOWE, W. C. ROSE, D. W. WILSON, Councilors. **1933** W. M. CLARK, President; H. B. LEWIS, Vice-President; H. A. MATTILL, Secretary; C. H. FISKE, Treasurer; H. C. BRADLEY, P. E. HOWE, W. C. ROSE, Councilors. **1934** W. M. CLARK, President; H. B. LEWIS, Vice-President; H. A. MATTILL, Secretary; C. H. FISKE, Treasurer; H. C. BRADLEY, E. A. DOISY, P. E. HOWE, Councilors. **1935** H. B. LEWIS, President; G. E. CULLEN, Vice-President; H. A. MATTILL, Secretary; C. H. FISKE, Treasurer; H. C. BRADLEY, J. B. COLLIP, E. A. DOISY, Councilors. **1936** H. B. LEWIS, President; G. E. CULLEN, Vice-President; H. A. MATTILL, Secretary; A. B. HASTINGS, Treasurer; J. B. COLLIP, E. A. DOISY, W. C. ROSE, Councilors. **1937** G. E. CULLEN, President; W. C. ROSE, Vice-President; H. A. MATTILL, Secretary; A. B. HASTINGS, Treasurer; E. A. DOISY, H. B. LEWIS, H. B. VICKERY, Councilors. **1938** G. E. CULLEN, President; W. C. ROSE, Vice-President; CHARLES G. KING, Secretary; A. B. HASTINGS, Treasurer; H. B. LEWIS, H. A. MATTILL, H. B. VICKERY, Councilors. **1939** W. C. ROSE, President; R. J. ANDERSON, Vice-President; CHARLES G. KING, Secretary; A. B. HASTINGS, Treasurer; H. B. LEWIS, H. A. MATTILL, G. E. CULLEN, Councilors. **1940** WILLIAM C. ROSE, President; RUDOLPH J. ANDERSON, Vice-President; CHARLES G. KING, Secretary; A. B. HASTINGS, Treasurer; H. A. MATTILL, GLENN E. CULLEN, E. A. DOISY, Councilors. **1941** R. J. ANDERSON, President; E. A. DOISY, Vice-President; A. K. BALLS, Secretary; W. C. STADIE, Treasurer; H. B. LEWIS, W. C. ROSE, Councilors. **1942** R. J. ANDERSON, President; E. A. DOISY, Vice-President; A. K. BALLS, Secretary; W. C. STADIE, Treasurer; W. C. ROSE, C. A. KING, H. Y. CLARKE, Councilors. **1943** E. A. DOISY, President; A. B. HASTINGS, Vice-President; A. K. BALLS, Secretary; W. C. STADIE, Treasurer; W. C. ROSE, H. T. CLARKE, R. J. ANDERSON, Councilors. **1944** E. A. DOISY, President; A. B. HASTINGS, Vice-President; A. K. BALLS, Secretary; W. C. STADIE, Treasurer; R. J. ANDERSON, H. T. CLARKE, V. DU VIGNEAUD, Councilors. **1945** A. B. HASTINGS, President; H. T. CLARKE, Vice-President; A. K. BALLS, Secretary; W. C. STADIE, Treasurer; R. J. ANDERSON, C. F. CORI, V. DU VIGNEAUD, Councilors. **1946** A. B. HASTINGS, President; H. T. CLARKE, Vice-President; OTTO A. BESSEY, Secretary; E. A. EVANS, JR., Treasurer; V. DU VIGNEAUD, C. F. CORI, A. K. BALLS, Councilors. **1947** HANS T. CLARKE, President, CARL F. CORI, Vice-President; OTTO A. BESSEY, Secretary; E. A. EVANS, JR., Treasurer; A. K. BALLS, A. BAIRD HASTINGS, J. MURRAY LUCK, Councilors.

CONSTITUTION

From the Articles of Incorporation

1. The name of the proposed corporation is "American Society of Biological Chemists, Incorporated."

2. The purposes for which this corporation is formed are to further the extension of biochemical knowledge and to facilitate personal intercourse between American investigators in biological chemistry.

BY-LAWS

Article I.—*Membership*

Section 1. *Eligibility for Membership.*—Qualified investigators who have conducted and published meritorious original investigations in biological chemistry shall be eligible for membership in the Society.

Sec. 2. *Nomination.*—Nominations for membership shall be made and seconded by members of the Society on blanks furnished by the Secretary. Nominations shall be submitted to the Council who shall determine eligibility and make recommendation to the Society at a regular meeting.

Sec. 3. *Election to Membership.*—A. A nominee for membership may be voted for by ballot at any meeting of the Society after Council has reported its findings on his eligibility. The eligible candidate shall be reported by the Council as "eligible" or as "eligible and indorsed." B. A majority of the ballots cast shall elect.

Sec. 4. *Forfeiture.*—A. Any member who may grant the use of his name for (a) the advertisement of a patent medicine, a proprietary food preparation, or any other commercial article of doubtful value to the public or possibly harmful to the public health, or (b) who may concede its use for the purpose of encouraging the sale of individual samples (of any such product) that he has not examined, shall forfeit his membership.

B. The Council shall have authority to announce forfeiture of membership, provided that the copy of the charges, together with a written notice of a hearing thereon by the Council at a place and time specified in such notice, shall have been delivered to the member charged with violating the preceding section either personally or mailed to him at his last known address at least thirty days before the date of such hearing.

Sec. 5. *Expulsion.*—Upon the recommendation of the Council any member may be expelled by a majority vote of the total membership at a meeting of the Society, provided that a copy of the charges against him, together with a written notice of a hearing thereon by the Council at a place and time specified in such notice shall have been delivered to him personally or mailed to him at his last known address at least thirty days before the date of such hearing.

Article II.—*Meetings and Quorum*

Section 1. *Annual.*—The annual meeting of the Society shall be held on the date fixed by the Certificate of Incorporation.

Sec. 2. *Special.*—A special meeting may be called at any time by the President, or in case of his absence or disability, by the Vice-President, and must be called at the request of a majority of the Council or fifteen members of the Society. A notice specifying the purpose of such meeting shall be mailed to each member at least ten days previous thereto. The Council shall select the places at which meetings shall be held.

Sec. 3. *Quorum.*—Fifteen members shall constitute a quorum at all meetings of the Society, but in absence of a quorum any number shall be sufficient to adjourn to a fixed date.

Article III.—*Officials*

Section 1. *Officers.*—The officers shall be a President, a Vice-President, a Secretary, and a Treasurer, who shall be elected annually by the members of the Society.

Sec. 2. *Council.*—A. The officers so elected and three additional members, one of whom shall be elected at each annual meeting of the Society to serve a three year term, shall constitute the Board of Directors of the corporation and shall be known as "The Council." (When this provision is first put into effect three members will need to be elected for a one, a two and a three year period.)

B. No two members of the Council may be from the same institution, and none of the officers so elected shall be eligible for re-election for more than two years except the Secretary and Treasurer, who shall be eligible for re-election for five years. The three additional members of the Council shall be ineligible for re-election (until after the lapse of one year).

Sec. 3. *Duties of Officers.*—The powers and duties of the officers elected by the Society shall be such as usually devolve upon their respective positions.

Sec. 4. *Assistant Treasurer.*—A. The Council may from time to time appoint a trust company, or some member of the Society, to serve during the pleasure of the Council as Assistant Treasurer, and to act as depositary of the investments and income of the "Christian A. Herter Memorial Fund" and of such other funds as the Society may from time to time commit to its or his charge.

B. The Assistant Treasurer shall have and exercise the following powers and duties, viz., the custody and safe-keeping of securities and cash belonging to the "Christian A. Herter Fund" and the collection of income and other moneys due to

the Fund, with power to receipt for the same and to endorse for deposit all checks payable to the Society or the Treasurer, or to the Journal of Biological Chemistry for income or other moneys due to the Fund, the investment or reinvestment of the capital of the Fund, subject to the approval of the Council; the disbursement of principal under the direction of the Council and the disbursement of income under the direction of the Editorial Board of the Journal of Biological Chemistry, such disbursement to be made under a resolution of the Council or Board, or with the approval of two members of either the Council or Board, as the case may be. The Assistant Treasurer shall keep books of account and render statements, annually or oftener upon the request of the Council or Board setting forth the condition of the Fund and the receipts and disbursements since the date of the preceding statement.

Article IV.—*The Council*

Section 1. *Powers.*—The general management of the Society during the intervals between meetings shall be vested in the Council, which shall regularly perform the ordinary duties of an executive committee and possess all the powers conferred upon the Board of Directors of a membership corporation by the Membership Corporation Law of the State of New York.

Sec. 2. *Reports.*—The Council shall report to the Society as promptly as possible its findings on the eligibility of candidates for membership, and on all charges of a violation of these By-Laws.

Sec. 3. *Journal of Biological Chemistry.*—The Council shall have power to appoint the persons to act as proxies for the Society at all meetings of the stockholders of the "Journal of Biological Chemistry" (a corporation) of which all the stock is owned by the Society, and also to designate the persons to be elected as Directors of such corporation.

Sec. 4. *Herter Fund.*—It shall be the duty of the Council to see that the "Christian A. Herter Memorial Fund" is administered in accordance with the terms of the Trust Agreement, Dated May 16, 1911, executed by the Journal of Biological Chemistry and the donors of said Fund.

Article V.—*Nominating Committee*

Section 1. *Membership.*—A. The Nominating Committee shall consist of nine members from nine different institutions elected at each annual meeting to serve for the ensuing year. Members who have served on the Nominating Committee for two consecutive years shall be ineligible for re-election until after the lapse of one year.

B. The member of the Nominating Committee who is elected to the Committee by the largest number of votes shall become Chairman and Secretary of the Committee.

Sec. 2. *Nomination of Officials.*—A. The Nominating Committee shall make at least one nomination for each of the four offices and for each of the three additional positions in the Council to be filled by vote of the members.

B. The nominations by the Nominating Committee must be transmitted to the Secretary at least one month before the annual meeting at which they are to be considered.

C. The Secretary shall send to every member, at least two weeks before the annual meeting, two copies of the list of nominees presented to him by the Nominating Committee and at the same time shall notify all the members that they may vote by proxy.

D. At the opening of the first executive session of the ensuing annual meeting the Secretary shall formally present the regular nominations for the Nominating Committee.

E. Additional nominations for the offices and for membership in the Council may be made by any member at the opening of the first executive session of any annual meeting.

F. Nominations for membership on the Nominating Committee shall be made by or for individual members, either in person or by proxy, and not otherwise, at the opening of the first executive session of any annual meeting.

Sec. 3. *Election of Officials.*—A. The Secretary shall receive and present to the tellers, appointed by the President to take charge of the election, all signed ballots forwarded by absent members. When such ballots are presented to the tellers the Secretary shall announce the names of the members voting by proxy, and he shall record the same names in the minutes of the meeting.

B. All elective officials shall be selected by ballot at the close of the first executive session of each annual meeting.

C. A majority of the votes cast shall be necessary to elect an official.

D. Elective officials shall take office on July 1st following the annual meeting.

Sec. 4. *Filling of Vacancies.*—A. The Nominating Committee shall fill all vacancies in elective positions except such as may occur at a meeting of the Society.

B. The President of the Society shall fill all vacancies in appointive positions.

Article VI.—*Financial*

Section 1. *Dues.*—Annual assessments shall be determined by majority vote at the annual meetings, upon the recommendation of the Council, and shall be due January 15th in each year. Members who have reached the age of 65 years, or who

have become incapacitated, may, by vote of the Council, be exempted from the payment of dues.

SEC. 2. *Expenditures.*—No expenditures from the general funds of the Society except those required in the performance of the ordinary official duties shall be made except by vote of the Society or the Council, but this section shall not apply to expenditures from the "Christian A. Herter Memorial Fund."

SEC. 3. *Privileges of Membership Begin with Payment of Dues.*—Candidates for membership, if elected, shall not be entitled to any of the privileges of membership, before they pay the dues of the fiscal year succeeding their election.

SEC. 4. *Penalty for Non-Payment of Dues.*—A. Members in arrears for dues for a period of three consecutive years shall thereupon forfeit their membership.

B. Delinquent members may be reinstated by the Council provided all indebtedness to the Society is liquidated.

SEC. 5. *Herter Fund.*—The "Christian A. Herter Memorial Fund" shall be held and invested separately from the general funds of the Society and the income thereof shall be expended under the direction of the Editorial Board exclusively for the maintenance and support of the Journal of Biological Chemistry, subject to the supervision and control of the Editorial Committee in accordance with the terms of the Trust Agreement mentioned in ARTICLE IV, SECTION 4, and the provisions of Article VII of the By-Laws.

ARTICLE VII.—*Journal of Biological Chemistry*

SECTION 1. *Editorial Committee.*—There shall be an Editorial Committee consisting of nine members of the Society who shall be nominated by the Nominating Committee and elected by the Society in the same manner as officers. The nine members first elected shall divide themselves by lot into three classes of three in each class, to serve for two, four, and six years respectively, and thereafter three members shall be elected at each alternate annual meeting of the Society to succeed the members of the outgoing class and to serve for a term of six years. Members of the Committee shall be eligible to re-election.

SEC. 2. *Powers of Committee.*—The Committee shall have power to elect an Editorial Board and shall have final authority in matters pertaining to the general policy of the Journal.

SEC. 3. *Editorial Board.*—The members of the Board shall hold office until their successors are elected and shall appoint a Managing Editor from among their own number who shall have direct responsibility and authority for the active editorial conduct of the Journal, and who shall have discretionary power in arranging the details as to the conduct of the Journal. The expenditures of the income of the "Christian A. Herter Memorial Fund" shall be under the direction of the Board, and the approval of any two members of the Board shall be a sufficient warrant to authorize payments from such income.

ARTICLE VIII.—*Papers on Scientific Subjects*

SECTION 1. *Presentation of Papers.*—The Secretary shall request each member who signifies his intention of reading a paper at any session to specify the length of time which its presentation will require. The time thus specified shall be printed on the official program, and the presiding officer shall have no authority to extend it unless a majority of the members present signify their wish to the contrary. In the absence of any specification of time required not more than ten minutes shall be allotted for the reading of any one paper.

SEC. 2. *Number of Papers.*—No member shall be permitted to present more than one paper, either alone or in collaboration, until every member shall have had the opportunity of presenting one paper.

ARTICLE IX.—*Corporate Seal*

SECTION 1. The corporate seal of the corporation shall be a circle surrounded by the words, "AMERICAN SOCIETY OF BIOLOGICAL CHEMISTS," and including the word, "INCORPORATED."

ARTICLE X.—*Amendments*

SECTION 1. *Amendments.*—These By-Laws, after having been approved by the Council, and adopted by the Society at its first annual meeting, shall not be amended except as hereinafter provided.

SEC. 2. *Manner of Presentation.*—Proposed amendments to the By-Laws must be sent to the Secretary at least one month before the date of the meeting at which they are to be considered and must be indorsed in writing by at least three members.

SEC. 3. *Notice of Intended Amendments.*—The Secretary shall give every member notice of proposed amendments at least two weeks before the meeting at which they are to be considered and shall notify all members that they may vote by proxy.

SEC. 4. *Adoption of Amendments.*—A. The Secretary shall receive and present to the tellers appointed by the President all signed ballots forwarded by absent members. When such ballots are presented to the tellers, the Secretary shall announce the names of members voting by proxy, and he shall record the same names in the minutes of the meeting.

B. Votes upon amendments shall be cast at the opening of the second executive session of the meeting at which they are considered.

C. Affirmative votes from three-fifths of the members voting shall be required for the adoption of an amendment.

AMERICAN SOCIETY FOR PHARMACOLOGY AND EXPERIMENTAL THERAPEUTICS, INCORPORATED

Founded December 28, 1908; Incorporated June 19, 1933

OFFICERS, 1948–1949

President—CARL A. DRAGSTEDT, Northwestern University Medical School, Chicago, Ill.

Vice-President—H. B. VAN DYKE, Columbia University, College of Physicians and Surgeons, New York City.

Secretary—HARVEY B. HAAG, Medical College of Virginia, Richmond, Va.

Treasurer—K. K. CHEN, Lilly Research Laboratories, Indianapolis, Ind.

Council—ARTHUR C. DEGRAFF, New York University College of Medicine, New York City; ROBERT A. WOODBURY, University of Tennessee, Memphis; GORDON A. ALLES, California Institute of Technology, Pasadena. CARL A. DRAGSTEDT; H. B. VAN DYKE; HARVEY B. HAAG; K. K. CHEN.

Membership Committee—CHARLES M. GRUBER (term expires 1949), Jefferson Medical College, Philadelphia, Pa.; ROBERT P. WALTON (term expires 1950), Medical College of the State of South Carolina, Charleston; JOHN C. KRANTZ, JR., (term expires 1951) University of Maryland Medical School, Baltimore.

Nominating Committee—BENJAMIN H. ROBBINS, Vanderbilt University School of Medicine, Nashville, Tenn.; C. JELLEFF CARR, University of Maryland School of Medicine, Baltimore; WILLIAM T. SALTER, Yale University School of Medicine, New Haven, Conn.; ALFRED GILMAN, Columbia University College of Physicians and Surgeons, New York City; OTTO KRAYER, Harvard University Medical School, Boston, Mass.

Historian—WILLIAM DEB. MACNIDER, University of North Carolina, Chapel Hill.

Committee on International Pharmacological Congress—M. L. TAINTER, *Chairman*, Sterling-Winthrop Research Institute, Rensselaer, N. Y.; OTTO KRAYER, Harvard University Medical School Boston, Mass.; H. B. VAN DYKE, Columbia University College of Physicians and Surgeons, New York City.

PAST OFFICERS

1909 J. J. ABEL, President; REID HUNT, Secretary; A. S. LOEVENHART, Treasurer; S. J. MELTZER, T. SOLLMANN, C. W. EDMUNDS, A. C. CRAWFORD, Councilors. **1910** J. J. ABEL, President; REID HUNT, Secretary; A. S. LOEVENHART, Treasurer; A. C. CRAWFORD, G. B. WALLACE, Councilors. **1911** J. J. ABEL, President; REID HUNT, Secretary; A. S. LOEVENHART, Treasurer; G. B. WALLACE, W. DEB. MACNIDER, Councilors; **1912** J. J. ABEL, President; J. AUER, Secretary. A. S. LOEVENHART, Treasurer; G. B. WALLACE, REID HUNT, Councilors. **1913** T. SOLLMANN, President; J. AUER, Secretary; A. S. LOEVENHART, Treasurer; J. J. ABEL, W. DEB. MACNIDER, Councilors. **1914** T. SOLLMANN, President; J. AUER, Secretary; W. DEB. MACNIDER, Treasurer; J. J. Abel, A. S. LOEVENHART, Councilors. **1915** T. SOLLMANN, President; J. AUER, Secretary; W. DEB. MACNIDER, Treasurer; WORTH HALE, D. E. JACKSON, Councilors. **1916** REID HUNT, President; J. AUER, Secretary; W. DEB. MACNIDER, Treasurer; A. D. HIRSCHFELDER, G. B. ROTH, Councilors. **1917** REID HUNT, President; L. G. ROWNTREE, Secretary; W. DEB. MACNIDER, Treasurer; J. AUER, CARL VOEGTLIN, Councilors. **1918** REID HUNT, President; E. D. BROWN, Secretary; W. DEB. MACNIDER, Treasurer; HUGH MCGUIGAN, CARL VOEGTLIN, Councilors. **1919** A. S. LOEVENHART, President; E. D. BROWN, Secretary; W. DEB. MACNIDER, Treasurer; REID HUNT, E. K. MARSHALL, JR., Councilors. **1920** A. S. LOEVENHART, President; E. D. BROWN, Secretary; W. DEB. MACNider, Treasurer; D. E. JACKSON, E. K. MARSHALL, JR., Councilors. **1921** C. W. EDMUNDS, President; E. D. BROWN, Secretary; HUGH MCGUIGAN, Treasurer; JOHN AUER, J. P. HANZLIK, Councilors. **1922** C. W. EDMUNDS, President; E. D. BROWN, Secretary; HUGH MCGUIGAN, Treasurer; J. P. HANZLIK, H. G. BARBOUR, Councilors. **1923** C. W. EDMUNDS, President; E. D. BROWN, Secretary; HUGH MCGUIGAN, Treasurer; J. P. HANZLIK, H. G. BARBOUR, Councilors. **1924** JOHN AUER, President; E. D. BROWN, Secretary; A. L. TATUM, Treasurer; J. P. HANZLIK, H. G. BARBOUR, Councilors. **1925** JOHN AUER, President; E. D. BROWN, Secretary; A. L. TATUM, Treasurer; H. G. BARBOUR, W. DEB. MACNIDER, Councilors. **1926** JOHN AUER, President; E. D. BROWN, Secretary; A. L. TATUM, Treasurer; H. G. BARBOUR, W. DEB. MACNIDER, Councilors. **1927** CARL VOEGTLIN, President; E. D. BROWN, Secretary; A. L. TATUM, Treasurer; V. E. HENDERSON, C. W. EDMUNDS, Councilors. **1928** CARL VOEGTLIN, President; E. D. BROWN, Secretary; A. L. TATUM, Treasurer; V. E. HENDERSON, C. W. EDMUNDS, Councilors. **1929** CARL VOEGTLIN, President; E. D. BROWN, Secretary; O. H. PLANT, Treasurer; V. E. HENDERSON, C. W. EDMUNDS, Councilors. **1930** GEORGE B. WALLACE, President; E. D. BROWN, Secretary; O. H. PLANT, Treasurer; H. G. BARBOUR, C. M. GRUBER, Councilors. **1931** GEORGE B. WALLACE, President; VELYIEN E. HENDERSON, Secretary; O. H. PLANT, Treasurer; PAUL D. LAMSON, WILLIAM DEB. MACNIDER, Councilors. **1932** WM. DEB. MACNIDER, Presi-

dent; A. N. RICHARDS, Vice-President; V. E. HENDERSON, Secretary; O. H. PLANT, Treasurer; G. B. ROTH, A. L. TATUM, Councilors. **1933** WM. DEB. MACNIDER, President; A. L. TATUM, Vice-President; V. E. HENDERSON, Secretary; O. H. PLANT, Treasurer; C. M. GRUBER, G. B. ROTH, Councilors. **1934** R. A. HATCHER, President; A. L. TATUM, Vice-President; E. M. K. GEILING, Secretary; O. H. PLANT, Treasurer; WM. DEB. MACNIDER, R. L. STEHLE, Councilors. **1935** V. E. HENDERSON, President; O. H. PLANT, Vice-President; E. M. K. GEILING, Secretary; C. M. GRUBER, Treasurer; FLOYD DE EDS, M. S. DOOLEY, Councilors. **1936** V. E. HENDERSON, President; O. H. PLANT, Vice-President; E. M. K. GEILING Secretary; C. M. GRUBER, Treasurer; C. W. EDMUNDS, G. B. WALLACE, Councilors. **1937** A. L. TATUM, President; E. M. K. GEILING, Vice-President; G. P. GRABFIELD, Secretary; C. M. GRUBER, Treasurer; V. E. HENDERSON, M. H. SEEVERS, Councilors. **1938** A. L. TATUM, President; E. M. K. GEILING, Vice-President; G. P. GRABFIELD, Secretary; C. M. GRUBER, Treasurer; E. K. MARSHALL, JR., C. F. SCHMIDT, Councilors. **1939** O. H. PLANT, President; E. M. K. GEILING, Vice-President; G. P. GRABFIELD, Secretary; E. E. NELSON, Treasurer; A. L. TATUM, C. A. DRAGSTEDT, Councilors. **1940** E. M. K. GEILING, President; C. F. SCHMIDT, Vice-President; G. PHILIP GRABFIELD, Secretary; E. E. NELSON, Treasurer; B. H. ROBBINS, C. H. THIENES, Councilors. **1941** E. M. K. GEILING, President; C. F. SCHMIDT, Vice-President; RAYMOND N. BIETER, Secretary; E. E. NELSON, Treasurer; E. G. GROSS, R. G. SMITH, Councilors. **1942** E. K. MARSHALL, JR., President; CARL A. DRAGSTEDT, Vice-President; RAYMOND N. BIETER, Secretary; E. E. NELSON, Treasurer; MCK. CATTELL, R. G. SMITH, Councilors. **1943** E. K. MARSHALL, JR., President; CARL A. DRAGSTEDT, Vice-President; RAYMOND N. BIETER, Secretary; E. E. NELSON, Treasurer; MCK. CATTELL, R. G. SMITH, Councilors. **1944, 1945** E. E. NELSON, President; C. M. GRUBER, Vice-President; R. N. BIETER, Secretary; MCKEEN CATTELL, Treasurer; HARRY BECKMAN, NATHAN B. EDDY, Councilors. **1946** MAURICE H. SEEVERS, President; H. B. VAN DYKE, Vice-President; HARVEY B. HAAG, Secretary; MCKEEN CATTELL, Treasurer; HAMILTON H. ANDERSON, JOHN C. KRANTZ, JR., Councilors. **1947** MAURICE H. SEEVERS, President; CARL A. DRAGSTEDT, Vice-President; HARVEY B. HAAG, Secretary; K. K. CHEN, Treasurer; HAMILTON H. ANDERSON, JOHN C. KRANTZ, JR., Councilors.

CONSTITUTION

ARTICLE I.—*Name*

The name of this organization shall be the "AMERICAN SOCIETY FOR PHARMACOLOGY AND EXPERIMENTAL THERAPEUTICS, INCORPORATED."

ARTICLE II.—*Objects*

The purpose of this Society shall be to promote these branches of science and to facilitate personal intercourse between investigators who are actively engaged in research in these fields.

ARTICLE III.—*Membership*

SECTION 1. Any person who has conducted and published a meritorious investigation in pharmacology or experimental therapeutics, and who is an active investigator in one of these fields, shall be eligible to membership, subject to the conditions of the other sections of Article III.

SEC. 2. A. Candidates for membership to this Society shall be proposed by two members who are not members of the Council. The names so proposed shall be sent to the Secretary at least three months prior to the Annual Meeting.

B. The Membership Committee shall investigate the qualifications of the candidates and report to the Council.

C. Candidates reported upon by the Membership Committee to the Council may be recommended for admission by the Council only provided they have been approved by four-fifths of the combined membership of the Membership Committee and the Council.

D. The names of the candidates recommended for admission by the Council shall be posted by the Secretary not later than the day preceding the election for members.

E. The election of members shall be by individual ballot; one opposing vote in every eight cast shall be sufficient to exclude a candidate from membership.

SEC. 3. *Forfeiture of Membership.*

A. Any member whose assessment is three years in arrears shall cease to be a member of the Society, unless he shall be reinstated by a special vote of the Council; and it shall be the duty of the Treasurer to inform the Secretary that he may notify the said delinquent of his right to appeal to the Council.

B. If the Council shall decide that it is for the best interests of the Society that a member be expelled, the member shall be notified and given an opportunity of a hearing before the Council. Upon the recommendation of the Council the member then may be expelled by a three-fourths vote of those present at a regular meeting of the Society.

SEC. 4. *Honorary Members.*

A. Distinguished men of science who have contributed to the advance of pharmacology or experimental therapeutics shall be eligible for election as honorary members of the Society.

B. Nominations for honorary members shall take the same course as nominations for ordinary members (Art. III, Sec. 2); but their election shall

require the unanimous vote of the members present at the election.

C. Honorary members shall pay no membership fee. They shall have the right to attend all meetings of the Society, and to take part in its discussions, but they shall have no vote.

D. The conditions for continuation of membership shall be the same for honorary as for ordinary members (Art. III, Sec. 3), except that forfeiture for arrears of fees does not apply to honorary members.

ARTICLE IV.—*Officers and Elections*

SECTION 1. *Officers and Committees*

A. The management of the Society shall be vested in a Council of seven officers, consisting of the President, Vice-President, Secretary, and Treasurer of the Society, and three Councilors-at-Large.

B. The four ex-officio members shall serve for one year but shall be eligible for re-election.

C. The three Councilors-at-Large shall serve for a period of three years, and shall not be eligible for immediate re-election.

D. At the first meeting of the Society under this amended Constitution one Councilor-at-Large shall be elected to serve for a period of three years, one for two years, and one for one year; and subsequently one Councilor-at-Large shall be elected annually to serve for a period of three years.

E. There shall be a Membership Committe, consisting of three members. No two members shall be from the same institution. The election of the Membership Committee shall be held annually at the time when the election of officers occurs. At the first meeting of the Society under this constitution, one member shall be elected to serve on the Committee for three years, one for two years, and one for one year; and subsequently one member shall be elected each year to serve for a period of three years.

F. There shall be a Nominating Committee of five members. No two members shall be from the same institution. Members of the Nominating Committee shall serve for one year. They are eligible for re-election, but shall not hold membership in the Committee for more than two consecutive years.

SEC. 2.—*Nomination of Officials and Committeemen*

A. The Nominating Committee shall make at least one nomination for each office and for the position on the Membership Committee to be filled by vote of the members. The nominations so made shall be transmitted to the Secretary and by him in turn to the members, at least one month before the annual meeting.

B. Nominations for membership on the Nominating Committee shall be made by individual members at the time of the annual election. The five nominees who receive the highest numbers of votes shall be declared elected. The Nominating Committee shall select its own Chairman who shall serve as Secretary to the Committee.

SEC. 3. *Election of Officials and Committeemen*

A. At the opening of the first executive session of the annual meeting the Secretary shall give to each member present a printed ballot showing the nominations of the Nominating Committee. After accepting additional nominations from individual members present a complete list of nominees shall be posted. A preliminary vote shall then be taken and the tellers, appointed by the President to conduct the election, shall post immediately a final list showing the two nominees for each office receiving the highest number of votes. At the close of the first session, a final vote shall be taken. A majority of votes cast shall be necessary to a choice.

B. Such vacancies as may occur in the offices and in the various committees in the interval between annual meetings shall be filled by a majority vote of the Council.

ARTICLE V.—*Meetings*

SECTION 1. The annual meeting of the Society shall be held at a time and place determined by the Council in consultation with the Executive Committee of the Federation of American Societies for Experimental Biology.

SEC. 2. Special meetings may be held at such times and places as the Council may determine.

SEC. 3. At least four weeks before the annual meeting the Secretary shall send to each member a notice of the time and place of such meeting and shall make such announcements as the Council may direct.

ARTICLE VI.—*Financial*

SECTION 1. The annual assessment shall be determined by majority vote at the annual meetings, upon the recommendation of the Council, and shall be due in advance at the time of the meeting.

SEC. 2. Beyond the ordinary expenditures required by the routine business of the Society no money shall be disbursed save by the authority of the Council or Society.

SEC. 3. The treasurer shall make an annual report to the Society.

SEC. 4. In case any profits result to the Society from the Journal of Pharmacology and Experimental Therapeutics at the end of the financial year, such profits shall be kept in a special account, after deducting any sums expended by the Society during the year for the conduct of the Journal, and shall be held subject to the order of the Council on recommendation of the Editorial Board.

ARTICLE VII.—*Quorum*

Ten members shall constitute a quorum for the transaction of business.

Article VIII.—*By-Laws*

By-Laws shall be adopted, altered or repealed at any meeting by two-thirds vote of the ballots cast.

Article IX.—*Amendments*

Section 1. Intended amendments to the Constitution shall be sent to the Secretary at least one month before the date of the meeting at which they are to be considered, and must be indorsed in writing by at least three members.

Sec. 2. The Secretary shall give all members due notice of proposed amendments.

Sec. 3. A four-fifths vote of the members present shall be required for the adoption of an amendment.

Article X.—*Official Publications*

Section 1. The President of the Society shall appoint, in consultation with the Council, and subject to the approval of the Society, three members of the Society to serve as members of a Board of Publications Trustees; these members shall elect a Managing Editor for each of the official journals of the Society, and each Managing Editor, during the term of his service, shall act as an additional voting member of the Board of Publications Trustees and shall participate in all the activities of the Board except that of election of managing editors of the journals of the Society.

Sec. 2. The members of the Board of Publications Trustees, hereinafter termed "The Board," shall each serve for a term of three years, shall be subject to reappointment, and may hold office concurrently in the Society. At the first appointment, however, one member shall be appointed for three years, one member for two years, and one member for one year, in order that in the future, appointments may be made annually in rotation. The Board shall meet at least once annually (a quorum shall consist of three members) and shall report directly to the Society.

Sec. 3. The special functions of The Board shall be to consider and to investigate thoroughly all matters pertaining to the fiscal and editorial policies of the journals which may come to the Society or to its Council, to the Managing Editors, and to the members of The Board. The Board shall (1) administer the finances of the journals, (2) establish the publication policies of the journals, and (3) elect a Managing Editor for each of the journals of the Society (as described in Sec. 1).

Sec. 4. The Managing Editor of each journal shall nominate to The Board, members of the Society acceptable to him as Associate Editors. From those nominated, The Board shall elect, for each journal, Associate Editors in such number as they shall consider adequate to fulfill the duties of that Editorial Board. The Managing Editor and each Associate Editor shall serve for three years, subject to reappointment, and may hold office concurrently in the Society. In the choice of The Boards of Editors, The Board is charged with the responsibility of obtaining editors with expert knowledge in the several fields of pharmacological research and with evidenced ability for critical and grammatical expression.

Sec. 5. The Boards of Editors of the journals shall meet on call of the respective Managing Editor, if possible just prior to or during the regular meetings of the Society, and may make recommendations to The Board concerning the improvement of the publication policies of the journals.

BY-LAWS

1. Papers to be read shall be submitted by the members of the Society to the Secretary, who, with the President, shall be empowered to arrange the program. No person may orally present more than one paper. In case of joint authorship, the name of the individual who will orally present the paper shall stand first. Papers not read shall appear on the program as read by title.

2. An abstract of a paper to be read before the Society shall be sent to the Secretary with the title. As early as possible after each meeting, the Secretary shall edit and publish the Proceedings of the Society together with abstracts in a publication authorized by the Society.

3. All applications for membership shall be accompanied by a copy of as many reprints as possible of the published work of the applicant.

4. Any member who has been an active member for thirty years, or who has retired for disability or age, may upon notification to the Treasurer be relieved from payment of dues.

THE AMERICAN SOCIETY FOR EXPERIMENTAL PATHOLOGY

Founded December 29, 1913

OFFICERS, 1948–1949

President—H. P. SMITH, Columbia University College of Physicians and Surgeons, New York City.

Vice-President—JOHN G. KIDD, Cornell University School of Medicine, New York City.

Secretary-Treasurer—FRIEDA S. ROBSCHEIT-ROBBINS, University of Rochester School of Medicine, Rochester, N. Y.

Councilors—JAMES F. RINEHART, University of California Medical School, San Francisco, Calif.; SIDNEY C. MADDEN, Emory University School of Medicine, Atlanta, Ga.

Representative in the Division of Medical Sciences of the National Research Council—(July 1, 1946–June 30, 1949): H. P. SMITH, College of Physicians and Surgeons, Columbia Univ., New York, N. Y.

Representatives on the Council of the American Association for the Advancement of Science—MALCOLM H. SOULE, Univ. of Michigan; E. B. KRUMBHAAR, University of Pennsylvania (terms: until June 30, 1949).

Representative on the Council of the Union of American Biological Societies—H. P. SMITH, Columbia Univ., College of Physicians and Surgeons, New York, N. Y.

Representatives on the Eli Lilly Award Committee (Jointly with the Society of American Bacteriologists)—For nominations: PAUL R. CANNON, University of Chicago. For Award: PEYTON ROUS, Rockefeller Institute, July 1, 1948–June 30, 1951.

Representative on the Committee for the Placement Service—DOUGLAS H. SPRUNT, Univ. of Tennessee Medical School, Memphis, Tenn.

Representative in the Division of Medical Sciences of the National Academy of Sciences—H. P. SMITH, Columbia Univ., College of Physicians and Surgeons, New York, N. Y.

PAST OFFICERS

1914 R. M. PEARCE, President; JOHN F. ANDERSON, Vice-President; G. H. WHIPPLE, Secretary-Treasurer; HARVEY CUSHING, DAVID MARINE, Councilors. **1915** THEOBALD SMITH, President; G. H. WHIPPLE, Vice-President; PEYTON ROUS, Secretary-Treasurer; DAVID MARINE, R. M. PEARCE, Councilors. **1916** SIMON FLEXNER, President; LEO LOEB, Vice-President; PEYTON ROUS, Secretary-Treasurer; DAVID MARINE, R. M. PEARCE, Councilors. **1917** LUDVIG HEKTOEN, President; LEO LOEB, Vice-President; HOWARD T. KARSNER, Secretary-Treasurer; PAUL A. LEWIS, L. G. ROWNTREE, Councilors. **1918** H. GIDEON WELLS, President; W. G. MACCALLUM, Vice-President; HOWARD T. KARSNER, Secretary-Treasurer; L. G. ROWNTREE, LUDVIG HEKTOEN, Councilors. **1919** W. G. MACCALLUM, President; WILLIAM H. PARK, Vice-President; HOWARD T. KARSNER, Secretary-Treasurer; LUDVIG HEKTOEN, E. L. OPIE, Councilors. **1920** WILLIAM H. PARK, President; F. G. NOVY, Vice-President; HOWARD T. KARSNER, Secretary-Treasurer; E. L. OPIE, WADE H. BROWN, Councilors. **1921** F. G. NOVY, President; HOWARD T. KARSNER, Vice-President; WADE H. BROWN, Secretary-Treasurer; PAUL A. LEWIS, A. R. DOCHEZ, Councilors. **1922** HOWARD T. KARSNER, President; EUGENE L. OPIE, Vice-President; WADE H. BROWN, Secretary-Treasurer; A. R. DOCHEZ, GEORGE H. WHIPPLE, Councilors. **1923** EUGENE L. OPIE, President; ALDRED S. WARTHIN, Vice-President; WADE H. BROWN, Secretary-Treasurer; GEORGE H. WHIPPLE, H. GIDEON WELLS, Councilors. **1924** ALDRED S. WARTHIN, President; GEORGE H. WHIPPLE, Vice-President; EDWARD B. KRUMBHAAR, Secretary-Treasurer; H. GIDEON WELLS, FREDERICK L. GATES, Councilors. **1925** GEORGE H. WHIPPLE, President; WADE H. BROWN, Vice-President; EDWARD B. KRUMBHAAR, Secretary-Treasurer; FREDERICK L. GATES, DAVID MARINE, Councilors. **1926** WADE H. BROWN, President; DAVID MARINE, Vice-President; EDWARD B. KRUMBHAAR, Secretary-Treasurer; FREDERICK L. GATES, WILLIAM F. PETERSEN, Councilors. **1927** DAVID MARINE, President; EDWARD B. KRUMBHAAR, Vice-President; CARL V. WELLER, Secretary-Treasurer; WILLIAM F. PETERSEN, FREDERICK L. GATES, Councilors. **1928** EDWARD B. KRUMBHAAR, President; WILLIAM F. PETERSEN, Vice-President; CARL V. WELLER, Secretary-Treasurer; FREDERICK L. GATES, SAMUEL R. HAYTHORN, Councilors. **1929** WILLIAM F. PETERSEN, President; FREDERICK L. GATES, Vice-President; CARL V. WELLER, Secretary-Treasurer; SAMUEL R. HAYTHORN, PEYTON ROUS, Councilors. **1930** FREDERICK L. GATES, President; SAMUEL R. HAYTHORN, Vice-President; C. PHILLIP MILLER, Secretary-Treasurer; PEYTON ROUS, CARL V. WELLER, Councilors. **1931** SAMUEL R. HAYTHORN, President; PEYTON ROUS, Vice-President; C. PHILLIP MILLER, Secretary-Treasurer; CARL V. WELLER, S. BURT WOLBACH, Councilors. **1932** PEYTON ROUS, President; CARL V. WELLER, Vice-President; C. PHILLIP MILLER, Secretary-Treasurer; S. BURT WOLBACH, OSKAR KLOTZ, Councilors. **1933** CARL V. WELLER, President; S. BURT WOLBACH, Vice-President; C. PHILLIP MILLER, Secretary-Treasurer; OSKAR

KLOTZ, ALPHONSE R. DOCHEZ, Councilors. **1934** S. BURT WOLBACH, President; OSKAR KLOTZ, Vice-President; SHIELDS WARREN, Secretary-Treasurer; C. PHILLIP MILLER, ALPHONSE R. DOCHEZ, Councilors. **1935** OSKAR KLOTZ, President; ALPHONSE R. DOCHEZ, Vice-President; SHIELDS WARREN, Secretary-Treasurer; MORTON MCCUTCHEON, C. PHILLIP MILLER, Councilors. **1936** ALPHONSE R. DOCHEZ, President; C. PHILLIP MILLER, Vice-President; SHIELDS WARREN, Secretary-Treasurer; MORTON MCCUTCHEON, ERNEST W. GOODPASTURE, Councilors. **1937** C. PHILLIP MILLER, President; MORTON MCCUTCHEON, Vice-President; PAUL R. CANNON, Secretary-Treasurer; ERNEST W. GOODPASTURE, SHIELDS WARREN, Councilors. **1938** MORTON MCCUTCHEON, President; ERNEST W. GOODPASTURE, Vice-President; PAUL R. CANNON, Secretary-Treasurer; SHIELDS WARREN, JESSE L. BOLLMAN, Councilors. **1939** ERNEST W. GOODPASTURE, President; SHIELDS WARREN, Vice-President; PAUL R. CANNON, Secretary-Treasurer; JESSE L. BOLLMAN, BALDUIN LUCKÉ, Councilors. **1940** SHIELDS WARREN, President; JESSE L. BOLLMAN, Vice-President; H. P. SMITH, Secretary-Treasurer; BALDUIN LUCKÉ, PAUL R. CANNON, Councilors. **1941** JESSE L. BOLLMAN, President; BALDUIN LUCKÉ, Vice-President; H. P. SMITH, Secretary-Treasurer; PAUL R. CANNON, DOUGLAS H. SPRUNT, Councilors. **1942, 1943, 1944, 1945** BALDUIN LUCKÉ, President; PAUL R. CANNON, Vice-President; H. P. SMITH, Secretary-Treasurer; DOUGLAS H. SPRUNT, FRIEDA S. ROBSCHEIT-ROBBINS, Councilors. **1946** PAUL R. CANNON, President; DOUGLAS H. SPRUNT, Vice-President; FRIEDA S. ROBSCHEIT-ROBBINS, Secretary-Treasurer; H. P. SMITH, JOHN G. KIDD, Councilors. **1947** DOUGLAS H. SPRUNT, President; H. P. SMITH, Vice-President; FRIEDA S. ROBSCHEIT-ROBBINS, Secretary-Treasurer; JAMES F. RINEHART, JOHN G. KIDD, Councilors.

CONSTITUTION

ARTICLE I.—*Name*

The Society shall be named "THE AMERICAN SOCIETY FOR EXPERIMENTAL PATHOLOGY."

ARTICLE II.—*Object*

The object of this Society is to bring the productive investigators in pathology, working essentially by experimental methods, in closer affiliation with the workers in the other fields of experimental medicine.

ARTICLE III.—*Time and Place of Meeting*

The Society shall meet at the same time and place as the Federation of American Societies for Experimental Biology, which comprises at present the American Physiological Society, the American Society of Biological Chemists, the American Society for Pharmacology and Experimental Therapeutics, the American Society for Experimental Pathology, the American Institute of Nutrition and the American Association of Immunologists.

ARTICLE IV.—*Membership*

SECTION 1. Any American investigator who, through the use of experimental methods, has, within three years prior to his candidacy, contributed meritorious work in pathology, is eligible to membership.

SEC. 2. It shall be the policy of the Society to restrict its membership to as small numbers as is compatible with the maintenance of an active existence.

SEC. 3. There shall be two classes of members: active and honorary members.

Active members: Candidates for active membership shall be nominated at or before an annual meeting by two members of the Society. The nominators shall present to the Secretary in writing evidence of the candidate's qualifications for membership. Nominations approved by the Council shall be presented to the Society for election at the next annual meeting following nomination. For election a favorable ballot by a majority of the members present is necessary.

Honorary members: These may be elected from the active list or from the group of distinguished investigators at home or abroad who have contributed to the knowledge of pathology by experimental study. They shall be elected only by the unanimous vote of the members present at time of nomination.

SEC. 4. Active members shall pay such annual dues as are determined upon, from year to year, by the Council. Honorary members shall pay no dues, are not eligible to office, and have no vote in the business affairs of the Society, but they shall have all the privileges of the active members in the scientific proceedings.

SEC. 5. Upon failure of an active member to pay dues for two years, notice shall be given to the member by the Secretary. At the end of the third year, if dues are still unpaid, such failure constitutes forfeiture of membership.

SEC. 6. A motion for expulsion of a member must be thoroughly investigated by the Council; at this investigation the accused shall be afforded a hearing or may be represented by a member. Expulsion can be accomplished only after a unanimous vote by the Council in favor of expulsion, sustained by a four-fifths vote of the members present at the meeting.

ARTICLE V.—*Officers*

The management of the Society shall be vested in a Council of five members, consisting of a Presi-

dent, a Vice-President, a Secretary-Treasurer, and two other members who shall be nominated by the Council and elected by the Society. Officers are elected by a majority vote and remain in office until July 1 following the Federation Meeting. Vacancies shall be filled by the Council for the unexpired term.

The President and Vice-President shall hold office for one year and are ineligible for re-election during the following year. The Secretary-Treasurer is eligible for re-election. Councilors shall hold office for two years and are elected on alternate years. At the first election one Councilor shall be elected for a short term of one year.

Article VI.—*Quorum*

Section 1.—Three constitute a quorum of the Council. The Council decides by a majority vote.

Sec. 2. A quorum of the Society for transaction of business shall be one-fourth of the total membership. In all questions brought before the Society a majority vote of those present shall decide, except as elsewhere provided for.

Article VII.—*Annual Meeting*

Section 1. Papers shall be limited to ten minutes. However, on motion and with unanimous consent, the time may be prolonged by a period not exceeding five minutes. The Council may make provision for longer papers on suitable occasions.

Sec. 2. The subjects of papers must be confined to experimental work in pathology. In doubtful cases a liberal interpretation by the President and Secretary may prevail. The Council may invite, however, presentations dealing with any subject which it considers of considerable interest to the Society.

Article VIII.—*Change of Constitution*

A motion concerning a change of the Constitution must be presented to the Council in writing by three members, and must be communicated to the members by the Secretary at least four weeks before the annual meeting. At this meeting such a change may be established when accepted by a four-fifths vote of the members present.

BY-LAWS

1. There must be in each year at least one meeting of the Council, which shall take place not later than the evening before the annual meeting.

2. At the end of the first session of the annual meeting the Secretary shall read the report of the Council. This report shall include (1) names of persons recommended for membership, (2) nominations for offices, (3) matters of general interest. The Secretary shall exhibit in a conspicuous place the names of candidates for membership recommended by the Council, together with the evidence of the qualifications of the candidates.

3. The election of officers and of new members, changes in the Constitution, etc., shall be voted upon at the end of the first session.

4. Changes in the By-Laws may be determined by a majority vote of those present.

5. In the year that a new Secretary-Treasurer is elected the incoming Council Member elected that year, or another member of the Council, shall become Assistant Secretary-Treasurer for the duration of the term of the Secretary-Treasurer.

AMERICAN INSTITUTE OF NUTRITION

Founded April 11, 1933; Incorporated November 16, 1934

Member of Federation 1940

OFFICERS, 1948–1949

President—E. M. NELSON, Food and Drug Administration, Federal Security Agency, Washington, D. C.

Vice-President—C. G. KING, Nutrition Foundation, Inc., Chrysler Building, New York City.

Secretary—J. H. ROE, George Washington University School of Medicine, Washington, D. C.

Treasurer—N. R. ELLIS, Bureau of Animal Husbandry, U. S. Department of Agriculture, Beltsville, Md.

Councilors—H. J. ALMQUIST, F. E. Booth Company Laboratories, Emeryville, Calif.; A. D. HOLMES, University of Massachusetts, Amherst, Mass.; E. N. TODHUNTER, University of Alabama, University, Ala.

Nominating Committee—H. G. DAY, *Chairman*, Indiana University, Bloomington; E. W. CRAMPTON, Macdonald College, McGill University, Quebec, Canada; H. J. DEUEL, University of Southern California Medical School, Los Angeles; HELEN A. HUNSCHER, Western Reserve University, Cleveland, Ohio; F. J. STARE, Harvard University, Boston, Mass.

PAST-OFFICERS

1933 L. B. MENDEL, President; H. C. SHERMAN, Vice-President; J. R. MURLIN, Secretary-Treasurer; E. F. DUBOIS, M. S. ROSE, Councilors. **1934** J. R. MURLIN, President; E. F. DUBOIS, Vice-President; ICIE G. MACY, Secretary; W. M. BOOTHBY, Treasurer; A. H. SMITH, AGNES FAY MORGAN, R. M. BETHKE, Councilors. **1935** J. R. MURLIN, President; E. F. DUBOIS, Vice-President; ICIE G. MACY, Secretary; G. R. COWGILL, Treasurer; A. H. SMITH, R. M. BETHKE, L. A. MAYNARD, Councilors. **1936** E. F. DUBOIS, President; MARY SWARTZ ROSE, Vice-President; G. R. COWGILL, Treasurer; ICIE G. MACY, Secretary; R. M. BETHKE, L. A. MAYNARD, C. A. ELVEHJEM, Councilors. **1937** MARY S. ROSE, President; E. V. MCCOLLUM, Vice-President; G. R. COWGILL, Treasurer; ICIE G. MACY, Secretary; L. A. MAYNARD, C. A. ELVEHJEM, P. E. HOWE, Councilors. **1938** E. V. MCCOLLUM, President; T. M. CARPENTER, Vice-President; G. R. COWGILL, Treasurer; L. A. MAYNARD, Secretary; C. A. ELVEHJEM, P. E. HOWE, HELEN S. MITCHELL, Councilors. **1939** H. C. SHERMAN, President; T. M. CARPENTER, Vice-President; G. R. COWGILL, Treasurer; L. A. MAYNARD, Secretary; P. E. HOWE, HELEN S. MITCHELL, A. H. SMITH, Councilors. **1940** THORNE M. CARPENTER, President; A. G. HOGAN, Vice-President; L. A. MAYNARD, Secretary; W. H. SEBRELL, JR., Treasurer; HELEN S. MITCHELL, ARTHUR H. SMITH, LYDIA J. ROBERTS, Councilors. **1941** A. G. HOGAN, President; L. A. MAYNARD, Vice-President; ARTHUR H. SMITH, Secretary; W. H. SEBRELL, JR., Treasurer; T. H. JUKES, LYDIA J. ROBERTS, H. B. LEWIS, Councilors. **1942** L. A. MAYNARD, President; H. B. LEWIS, Vice-President; ARTHUR H. SMITH, Secretary; W. H. SEBRELL, JR., Treasurer; LYDIA J. ROBERTS, GENEVIEVE STEARNS, T. H. JUKES, Councilors. **1943** H. B. LEWIS, President; ICIE G. MACY-HOOBLER, Vice-President; ARTHUR H. SMITH, Secretary; LYDIA J. ROBERTS, GENEVIEVE STEARNS, T. H. JUKES, Councilors. **1944** ICIE G. MACY-HOOBLER, President; WM. C. ROSE, Vice-President; ARTHUR H. SMITH, Secretary; E. M. NELSON, Treasurer; GENEVIEVE STEARNS, T. H. JUKES and C. A. ELVEHJEM, Councilors. **1945** WM. C. ROSE, President; ARTHUR H. SMITH, Vice-President; H. E. CARTER, Secretary; E. M. NELSON, Treasurer; T. H. JUKES, C. A. ELVEHJEM, D. W. WOOLLEY, Councilors. **1946** ARTHUR H. SMITH, President; R. M. BETHKE, Vice-President; H. E. CARTER, Secretary, E. M. NELSON, Treasurer; C. A. ELVEHJEM, D. W. WOOLLEY, H. J. ALMQUIST, Councilors. **1947** R. M. BETHKE, President; E. M. NELSON, Vice-President; H. E. CARTER, Secretary; N. R. ELLIS, Treasurer; D. W. WOOLLEY, H. J. ALMQUIST, A. D. HOLMES, Councilors.

CONSTITUTION

1. The name of the proposed society is the "AMERICAN INSTITUTE OF NUTRITION."

2. The purposes of the society are to further the extension of the knowledge of nutrition and to facilitate personal contact between investigators in nutrition and closely related fields of interest.

3. The management of the American Institute of Nutrition shall be vested in a council consisting of the President, Vice-President, Secretary, Treasurer and three additional members.

BY-LAWS

ARTICLE I—*Membership*

SECTION 1. *Eligibility for membership:* Members. Qualified investigators who have independently conducted and published meritorious original investigations in some phase of the chemistry or physiology of nutrition and who have shown a professional interest in nutrition for at least 5

years shall be eligible for membership in the Society.

SEC. 2. *Nomination:* Nominations for membership shall be made and seconded by members of the Society on blanks furnished by the Secretary. Nominations shall be submitted to the Council who shall determine eligibility and make recommendation to the Society at a regular meeting.

SEC. 3. *Election to membership:* A. A nominee for membership may be voted for by ballot at any meeting of the Society after the Council has reported its findings on his eligibility. B. A majority of the ballots cast shall elect.

SEC. 4. *Forfeiture:* If a majority of the Council after due notice to the member in question and opportunity for a hearing, shall decide that the interests of the Society require the expulsion of a member, the Secretary shall send a notice of this decision to each member at least two weeks before the next annual meeting. At this meeting the Secretary shall, on behalf of the Council, propose the expulsion; and if two-thirds of the members present vote for it, the member shall be expelled, his assessment for the current year shall be returned to him, and he shall cease to be a member of the Society.

ARTICLE II—*Meetings and Quorum*

SECTION 1. *Annual:* The annual meeting of the Society shall be held on the date fixed by the Certificate of Incorporation.

SEC. 2. *Special:* A special meeting may be called at any time by the President, or in case of his absence or disability, by the Vice-President, and must be called at the request in writing of a majority of the Council or fifty members of the Society. Notice specifying the purpose of such meeting shall be mailed to each member at least ten days previous thereto. The Council shall select the places at which meetings shall be held.

SEC. 3. *Quorum:* Thirty members shall constitute a quorum at all meetings of the Society, but in the absence of a quorum any number shall be sufficient to adjourn to a fixed date.

ARTICLE III—*Officials*

SECTION 1. *Officers:* The officers shall be a President, and a Vice-President, who shall be elected annually, and a Secretary and Treasurer, each of whom shall be elected to serve for a term of three years. These officers shall be elected by the members of the Society. Their terms of office shall commence on July 1 of the year in which they are elected.

SEC. 2. *Council:* The officers so selected and three additional members, one of whom shall be elected at each annual meeting to serve a term of three years, shall constitute a Board of Trustees and shall be known as 'The Council.' (When this provision is first put into effect one member shall be elected for 1 year, one for 2 years and the third for 3 years.)

SEC. 3. *Duties of Officers:* The powers and duties of the officers elected by the Society shall be such as usually devolve upon their respective positions.

ARTICLE IV—*The Council*

SECTION 1. *Powers:* The general management of the Society during the intervals between meetings shall be vested in the Council, which shall regularly perform the ordinary duties of an executive committee and possess all the powers conferred upon the Board of Trustees of an educational institution chartered by the Education Department of the University of the State of New York. A permanent charter was issued to the American Institute of Nutrition under date of November 16, 1934.

SEC. 2. *Reports:* The Council shall report to the Society its findings on the eligibility of candidates for membership, and on all charges of a violation of these By-Laws.

ARTICLE V—*Nominating Committee*

SECTION 1. *Membership:* A. The Nominating Committee shall consist of five members appointed for the coming year by the retiring President. Members who have served on the Nominating Committee for two consecutive years shall be ineligible for reappointment until after a lapse of one year. B. The President shall designate one member to be Chairman of the Nominating Committee.

SEC. 2. *Nomination of Officials:* A. The Nominating Committee shall make at least one nomination for each of the four offices, for each of the additional positions on the Council to be filled by vote of the members and for each of the positions on the Editorial Board to be vacated at the time of the annual meeting. Any member of the Institute may submit nominations to the Nominating Committee for its consideration along with those nominations made by the members of the Nominating Committee. B. The nominations by the Nominating Committee shall be transmitted to the Secretary at least six weeks before the annual meeting at which they are to be considered. C. The Secretary shall send to every member, at least two weeks before the annual meeting, a printed ballot containing the list of nominees and space for such additional names as the member wishes to propose, and at the same time shall notify the members that they may vote by mail, returning to the Secretary the marked ballot in the envelope provided, at such a time and place as the Secretary may designate, or the ballot may be delivered to the Secretary at the beginning of the business session at which the elections are to take place.

SEC. 3. *Election of Officials:* A. At the beginning of the business session the Secretary shall present to the tellers, appointed by the President, the ballots submitted by the members and the ballots shall be counted forthwith. B. A majority of votes cast shall be necessary to elect an official.

SEC. 4. *Filling of Vacancies:* A. The Nominating Committee shall fill all vacancies in elective positions except such as may occur at a meeting of the Society. B. The President of the Society shall fill all vacancies in appointive positions.

ARTICLE VI—*Financial*

SECTION 1. *Dues:* The dues shall be the annual cost of subscription to The Journal of Nutrition for members plus an annual assessment which shall be determined by majority vote at the annual meetings, upon recommendation of the Council, and shall be due within a month after the annual meeting. A member on attaining the age of 65 may elect to be relieved from all financial obligations to the Institute including subscription to The Journal of Nutrition.

SEC. 2. *Expenditures:* No expenditures from the general funds of the Society except those required in the performance of the ordinary official duties shall be made except by vote of the Society or the Council.

SEC. 3. *Penalty for non-payment of dues:* A. Members in arrears for dues for two consecutive years shall forfeit their membership. B. Delinquent members may be reinstated by the Council provided all indebtedness to the Society is liquidated.

ARTICLE VII—*The Journal of Nutrition*

SECTION 1. The American Institute of Nutrition designates The Journal of Nutrition as its official organ of publication.

SEC. 2. In accordance with the expressed wish of the Wistar Institute of Anatomy and Biology, owner and publisher of The Journal of Nutrition, the American Institute of Nutrition shall nominate members of the Editorial Board for its official organ. A. The editorial management of The Journal of Nutrition shall be vested in an Editorial Board consisting of an Editor and twelve Board Members. B. The Editor shall be chosen by the Editorial Board to serve a term of five years beginning July 1 of the year in which he is chosen, and shall be eligible for reëlection. The Editor shall have the power to designate one of the Board Members to serve as his assistant, and such an appointee shall be called Associate Editor. C. Three members of the Institute shall be nominated by the Nominating Committee for membership on the Editorial Board each year to serve a term of four years, replacing three retiring members and taking office May 1 of the year in which they are elected. In the event of a vacancy in the membership of the Editorial Board occurring through death or other reason, the Nominating Committee, for each such vacancy to be filled shall make an additional nomination. In this event the nominees elected who receive the greatest number of votes shall serve the longest term of vacancies to be filled. D. Retiring members of the Editorial Board shall not be eligible for renomination until one year after their retirement.

ARTICLE VIII—*Papers on Scientific Subjects*

SECTION 1. The Secretary shall be authorized to arrange programs for the scientific sessions at the annual meetings.

ARTICLE IX—*Changes in Constitution and By-Laws*

SECTION 1. Proposed changes in the Constitution and By-Laws must be sent in writing to the Secretary at least one month before the date of the meeting at which they are to be considered, and must be signed by at least three members. The Secretary shall send a printed copy of any proposed change to each member at least two weeks before the next meeting and shall notify all members that they may vote by proxy.

SEC. 2. If at this meeting two-thirds of the votes cast shall favor the proposed change, it shall be made.

THE AMERICAN ASSOCIATION OF IMMUNOLOGISTS

Founded June 19, 1913; Member of Federation 1942

OFFICERS, 1948–1949

President—MICHAEL HEIDELBERGER, Columbia University College of Physicians and Surgeons.

Vice-President—LLOYD D. FELTON, National Institutes of Health, Bethesda, Md.

Secretary-Treasurer—JULES FREUND, Public Health Research Institute of the City of New York, New York City.

Honorary President—ARTHUR F. COCA, Lederle Laboratories, Pearl River, N. Y.

Council—JACQUES J. BRONFENBRENNER, PAUL R. CANNON, GEOFFREY EDSALL, KARL F. MEYER, SANFORD B. HOOKER, *ex officio.*, THOMAS FRANCIS, JR.

PAST OFFICERS

Presidents—**1913** GERALD B. WEBB. **1915** JAMES W. JOBLING. **1916** RICHARD WEIL. **1917** JOHN A. KOLMER. **1918** WILLIAM H. PARK. **1919** HANS ZINSSER. **1920** RUFUS I. COLE. **1921** FREDERICK P. GAY. **1922** GEORGE W. MCCOY. **1923** H. GIDEON WELLS. **1924** FREDERICK G. NOVY. **1925** WILFRED H. MANWARING. **1926** LUDVIG HEKTOEN. **1927** KARL LANDSTEINER. **1928** EUGENE L. OPIE. **1929** OSWALD T. AVERY. **1930** STANHOPE BAYNE-JONES. **1931** ALPHONSE R. DOCHEZ. **1932** AUGUSTUS B. WADSWORTH. **1933** THOMAS M. RIVERS. **1934** FRANCIS G. BLAKE. **1935** WARFIELD T. LONGCOPE. **1936** SANFORD B. HOOKER. **1937** CARL TENBROECK. **1938** DONALD T. FRASER. **1939** GEORGE P. BERRY. **1940** PAUL R. CANNON. **1941** KARL F. MEYER. **1942–1945** JACQUES J. BRONFENBRENNER. **1945–1947** MICHAEL HEIDELBERGER. **1947** LLOYD D. FELTON.

Vice-Presidents—**1913–1915** GEORGE W. ROSS. **1915** GEORGE P. SANBORN. **1916** JOHN A. KOLMER. **1947** MICHAEL HEIDELBERGER.

Secretary—**1913–1918** MARTIN J. SYNOTT.

Treasurer—**1913–1918** WILLARD J. STONE.

Secretary-Treasurer—**1918–1947** ARTHUR F. COCA.

CONSTITUTION

(As revised May, 1947)

ARTICLE I

SECTION 1. This Association shall be called THE AMERICAN ASSOCIATION OF IMMUNOLOGISTS.

SECTION 2. The object of the Association shall be to promote the knowledge of immunology, chemotherapy, virology and related disciplines; and to facilitate contact between investigators in those and related fields.

ARTICLE II

SECTION 1. The Association shall be governed by a Council which shall consist of the Officers of the Association, four Councillors, and a representative of the Board of Editors of the Journal of Immunology.

SECTION 2. The Officers of the Association shall be a President, a Vice President, a Secretary, and a Treasurer.

SECTION 3. The President, the Secretary, and the Treasurer shall be elected at the regular annual meeting of the Association to serve for one year. They shall take office the day after the end of the annual meeting.

SECTION 4. The President shall not serve for more than one year consecutively. The Secretary and the Treasurer are eligible for reelection.

SECTION 5. The outgoing President shall serve as Vice President for the year subsequent to his Presidency.

SECTION 6. The Editors of the Journal of Immunology shall designate annually one out of their number as their representative with power to vote in the Council of the Association.

SECTION 7. One Councillor shall be elected each year to serve for four years. No Councillor may be reelected until one year after expiration of his term. He may, however, serve in any other elective office immediately after expiration of his term as Councillor.

SECTION 8. The President shall appoint a Nominating Committee of three (or more) members not holding executive office in the Association and shall designate the Chairman. The Nominating Committee shall make at least one nomination for each of the offices. Nominations made by the Nominating Committee shall be transmitted to the Secretary at least six weeks before the annual meeting. The Secretary shall send to every member of the Association, at least four (4) weeks before the annual meeting, a ballot containing the list of the nominees and spaces for such additional nominees as the members might wish to propose.

SECTION 9. The members may vote by mail. Ballots sent by mail must be in the hands of the Secretary before the opening of the annual meeting. Alternatively, members may vote at the annual meeting. At the annual meeting the Secretary shall present to tellers appointed by the President, all ballots received by him.

SECTION 10. A plurality of votes shall be sufficient for election.

SECTION 11. It is the duty of the Council to conduct the business of the Association.

SECTION 12. Should a vacancy occur in the Council other than by expiration of term of service, the Council may elect a member to fill the vacancy until the next regular meeting.

SECTION 13. The Vice President shall substitute for the President when necessary. If a vacancy should occur in the offices of the Secretary or Treasurer the Council may elect a member to fill the vacancy for the unexpired portion of the term.

SECTION 14. In case of equal division of votes, the President shall cast the decisive ballot.

ARTICLE III

SECTION 1. The Association shall consist of active members, members emeriti, and honorary members.

SECTION 2. Any qualified person engaged in the study of problems related to the purpose of the Association shall be eligible to active membership.

SECTION 3. Candidates for active membership shall be nominated by two members of the Association on blanks furnished by the Secretary. Applications must be accompanied by letters of recommendation of the sponsors, a curriculum vitae, reprints of publication and other suitable evidence of fitness. Nominations are to be submitted to the Council which shall determine eligibility and shall post a list of candidates at the annual meeting. The membership shall elect new members by majority vote.

SECTION 4. Failure to pay dues for three successive years shall annul membership. However, the Council may reinstate a member if an acceptable explanation is submitted.

SECTION 5. If a 2/3 majority of the Council decides that the interests of the Society require the expulsion of a member, the Secretary shall notify the affected member in writing of the charges. The Council shall allow a reasonable time for the presentation of his defence before acting. Upon recommendation of a 2/3 majority of the Council, the Secretary shall send a notice of the decision to each active member at least three weeks before the next annual meeting. At this meeting the Secretary shall, on behalf of the Council, propose the expulsion; and on a two-thirds vote of the members present, the member shall be expelled, his assessment for the current year shall be returned and he shall cease to be a member of the Society.

SECTION 6. A member on attaining the age of sixty-five years may elect to accept the status of member emeritus. As such he shall retain voting privileges but shall be relieved of all financial obligations to the Association including subscription to the Journal of Immunology and the Federation Proceedings.

SECTION 7. The Council may nominate for honorary membership persons of extraordinary achievement in the field of endeavor of this Association. Election to honorary membership shall follow the same procedure as that for election for office in the Association, and the Secretary, on order of the Council shall place nominations for honorary membership on the annual ballot.

ARTICLE IV

SECTION 1. The members present at the annual meeting of the Association shall constitute a quorum.

SECTION 2. A quorum of the Council for the transaction of all business shall be three.

BY-LAWS

1. A regular meeting of the Association shall be held annually at such time and place as the Council shall determine.

2. Special meetings of the Association may be held at the discretion of the Council.

3. Regular and special meetings shall be open to all members of the Association.

4. A meeting of the Council shall be held before each annual session of the Association.

5. The Past Presidents shall have the right of attending, without vote, the meetings of the Council.

6. The President may appoint a Past President as pro tempore Councillor at any stated meeting of the Council at which a quorum is not present.

7. The Council may transact, and vote by mail on, such business as cannot be conveniently transacted at meetings.

8. The fiscal year of the Association shall begin April first.

9. The Secretary shall arrange the program for the scientific meetings, with the advice of the other officers of the Association. Papers intended for presentation at the meetings shall conform to the standards of the Journal of Immunology. In case of doubt, the Secretary shall have the right to submit papers to the scrutiny of two members of the Editorial Board of the Journal of Immunology, whose decision shall be final.

10. The dues of the Association shall be determined annually by the Council and shall include subscription to the Journal of Immunology.

11. Proposed changes in the Constitution and By-Laws must be submitted in writing to the Secretary. The President shall then appoint a Committee of at least three members which shall communicate its recommendations to the Secretary.

12. Recommendations of such Committees shall be sent to the membership of the Association by the Secretary with the annual ballot. A change in the Constitution and the By-Laws shall require

a two-thirds majority of the members casting votes either by mail or at the annual meeting.

13. The Journal of Immunology, which is the property and official organ of this Association, shall be administered for the Association by an Editorial Staff.

14. The Editorial Staff shall be organized and its members shall be elected by or may be removed by a majority vote of the Council of the Association.

15. If by force of circumstances it should be impossible to have an annual meeting, election of Officers and Council may be held entirely by mail. If this also should prove to be impossible, the Council may direct the Officers to continue in their Offices until such time as elections can be held.

16. The Council shall adopt temporary rules for the transition period after the adoption of the amended Constitution.

ALPHABETICAL LIST OF ALL MEMBERS OF THE SIX SOCIETIES

The parenthesis following each listed name gives the Society affiliation and year of election:

(1) The American Physiological Society
(2) American Society of Biological Chemists
(3) The American Society for Pharmacology and Experimental Therapeutics
(4) The American Society for Experimental Pathology
(5) The American Institute of Nutrition
(6) The American Association of Immunologists

HONORARY MEMBERS

Adrian, E. D. Dept. of Physiology, Cambridge University, Cambridge, England. **(1, 1946)**

Castaneda, M. Ruiz, M.D. Investigaciones Medicas, Hospital General, Mexico, D. F. *Director, Department of Medical Research.* **(6, 1942)**

Chopra, R. N., M.A., M.D., Sc.D.(Cantab), F.R.C.P. (London) P.I.E. School of Tropical Medicine, Calcutta, India. *Director; Professor of Pharmacology.* **(3, 1938)**

Coca, Arthur F., A.M., M.D. Oradell, N. J. **(6, 1916)**

Dale, H. H. The Wellcome Trustees, Dilke House, Malet St., London, W.C., England. **(3, 1926)**

Hektoen, Ludvig, M.D. 629 S. Wood St., Chicago, Ill. *President, Chicago Tumor Institute.* **(6, 1919)**

Hitchens, Arthur P., M.D. Public Building, Wilmington 33, Del. *Health Commissioner, Wilmington, Del.* **(6, 1913)**

Houssay, Bernardo A., M.D. Viamonte 2790, Buenos Aires, Argentina. *Director, and Professor of Physiology.* **(1, 1942)**

Huntoon, F. M., M.D. Woodbridge, Conn. **(6, 1918)**

Krogh, August. Juliane Marariesvej 34, Copenhagen, Denmark. **(1, 1946)**

Lapicque, L. Laboratory of Physiology, The Sorbonne, Paris, France. **(1, 1946)**

Loewi, Otto, M.D. New York University College of Medicine, 477 First Ave., New York City *Research Professor in Pharmacology.* **(3, 1941)**

McCoy, George Walter, M.D. Louisiana State University Medical School, New Orleans. *Director, Department of Public Health.* **(6, 1916)**

Novy, Frederick G., M.D., Sc.D., LL.D. 721 Forest Ave., Ann Arbor, Mich. *Dean Emeritus and Professor Emeritus of Bacteriology, Medical School, University of Michigan.* **(6, 1920)**

Orbeli, L. A. Academy of Sciences of the USSR, Moscow, USSR. **(1, 1946)**

Porter, William Townsend, M.D., Sc.D., LL.D. Dover, Mass. *Emeritus Professor of Comparative Physiology, Harvard University.* **(1, 1891)**

Sherrington, Sir Charles S., O.M., Sc.D., M.D., F.R.S. "Broomside," Valley Road, Ipswich, England. *Former Wayneflete Professor of Physiology, Oxford University; Former President of the Royal Society.* **(1, 1904)**

Sordelli, A. Institute of Bacteriology, Department of Public Health, Buenos Aires, Argentina. *Director.* **(6, 1942)**

RETIRED MEMBERS

Addison, William H., M.D. University of Pennsylvania, Philadelphia, Pa. *Professor of Histology and Embryology.* **(1, 1928)**

Allen, William F., Ph.D., D.Sc. University of Oregon Med. Sch., Portland. *Emeritus Prof. of Anatomy.* **(1, 1929)**

Babkin, B. P., M.D., D.Sc., F.R.S.C. McGlil University, Montreal, Canada. *Prof. of Physiology* **(1, 1924)**

Bachmann, George, M.D., F.A.C.P. Emory University School of Med., Emory University, Ga. *Emeritus Prof. of Physiology.* **(1, 1912)**

Brown, Edgar D., Pharm. D., M.D. Paynesville, Minn. *Emeritus Assoc. Prof. of Pharmacology.* **(1, 1907; 3, 1909)**

Burton-Opitz, Russell, Ph.D. 218 Bridle Way, Palisade, N. J. *Attending Cardiologist, Lenox Hill Hospital; Attending Physician, Cumberland Hospital; Consulting Cardiologist, Englewood, North Hudson, Holy Name, and Hackensack Hospitals.* **(1, 1902; 3, 1919)**

Campbell, H. Louise, Ph.D. 900 Windsor Ave., Windsor, Conn. **(5, 1933)**

Child, Charles M., Ph.D., D.Sc.(hon.) Stanford University, Calif. *Member, Nat'l. Academy of Sciences; Emeritus Prof., University of Chicago.* **(1, 1923)**

Clark, Eliot R., M.D. University of Pennsylvania, Philadelphia, Pa. *Prof. and Head of Dept. of Anatomy.* **(1, 1919)**

Coca, Arthur F., M.D. Lederle Laboratories, Pearl River, N. Y. *Medical Director.* **(6, 1916)**

Culler, Elmer A., Ph.D. University of Rochester, Rochester, N. Y. *Prof. of Psychology and Director of the Lab.* **(1, 1936)**

Dawson, Percy M., M.D. 665 E. Maryland Ave., Claremont, Calif. **(1, 1900)**

Dooley, M. S., M.D. Syracuse Univ. College of Med., Syracuse, N. Y. *Prof. of Pharmacology* (**3**, 1923)

Durrant, Edwin P., Ph.D. Ohio State University, Columbus, Ohio. *Emeritus Assoc. Prof. of Physiology.* (**1**, 1928)

Erlanger, Joseph, M.D., LL.D., Sc.D. Washington Univ. Sch. of Med., St. Louis, Mo. *Emeritus Prof. of Physiology: Member of the Natl. Academy of Sciences.* (**1**, 1901)

Famulener, Lemuel W., Ph.C., M.D. 275 Engle St., Englewood, N. J. (**6**, 1920)

Fitzgerald, Mabel P., 54 A. George Sq. Edinburgh, Scotland. (**1**, 1913)

Forbes, Henry S., M.D. Harvard Medical School, Boston, Mass. *Assoc. in Neuropathology.* (**1**, 1931)

Githens, Thomas S., M.D. The Cambridge-Alden Park, Wissahickon and School Lane, Germantown, Philadelphia, Pa. (**1**, 1915)

Glaser, O. C., Ph.D. Amherst College, Amherst, Mass. *Prof. of Biology.* (**1**, 1913)

Hale, Worth, M.D. Antrim, New Hampshire. (**1**, 1908; **3**, 1908)

Halsey, John T., M.D. P. O. Box 264, Waveland, Miss. *Emeritus Prof. of Pharmacology, Tulane Univ.* (**3**, 1929)

Herrick, C. Judson, Ph.D. University of Chicago, Chicago, Ill. *Emeritus Prof. of Neurology; Member of the Natl. Academy of Sciences.* (**1**, 1907)

Hoskins, R. G., Ph.D., M.D. 86 Varick Rd., Waban 68, Mass. (**1**, 1911)

Knowlton, Frank P., M.D. Syracuse University Col. of Med., Syracuse, N. Y. *Emeritus Prof. of Physiology.* (**1**, 1911)

Kyes, Preston, Sc.D., M.D. University of Chicago, Chicago, Ill. *Emeritus Prof.* (**6**, 1918)

Laurens, Henry D.. Ph.D., M.D. The Rockefeller Institute, New York City. *Associate.* (**1**, 1913)

Lewis, Warren H., M.D. Wistar Institute of Anatomy and Biology, Philadelphia, Pa. *Member; Member of the Natl. Academy of Sciences* (**1**, 1919)

Loebel, Robert O., M.D. 205 East 78th St., New York City. (**1**, 1928)

Mackenzie, George M., M.D. Mary Imogene Bassett Hospital, Cooperstown, N. Y. *Physician-in-Chief; Director, Otsego County Lab.* (**6**, 1912)

Moulton, C. Robert, Ph.D. 5602 Dorchester Ave., Chicago, Ill. (**5**, 1933)

Parker, George H., Sc.D. 16 Berkeley St., Cambridge, Mass. *Emeritus Professor of Zoology, Harvard Univ.; Member of the Natl. Academy of Sciences.* (**1**, 1909)

Pilcher, J. Douglas, M.D. City Hospital, Scranton Rd., Cleveland, Ohio. *Assoc. Prof. of Pediatrics, Western Reserve Univ. School of Medicine.* (**3**, 1911)

Pohlman, Augustus G., M.D. University of Southern California, Los Angeles, Calif. *Assoc. Prof. Dept. of Otolaryngology.* (**1**, 1934)

Pratt, Frederick H., M.D. Boston University Sch. of Med., Boston, Mass. *Emeritus Prof. of Physiology.* (**1**, 1919)

Quinby, William C., M.D. Harvard University Med. Sch., Boston, Mass. *Clin. Prof. of Genitourinary Surgery.* (**1**, 1916)

Riddle, Oscar, Ph.D. Cold Spring Harbor, L. I., N. Y. *Visiting Prof. from the U. S. (in South America): Member of the Natl. Academy of Sciences.* (**1**, 1919)

Rogers, Charles G., Ph.D., Sc.D. Oberlin College, Oberlin, Ohio. *Prof. of Comparative Physiology.* (**1**, 1911)

Roth, George B., M.D. 3814 T St., N.W., Washington, D. C. *Emeritus Prof. of Pharmacology, Geo. Washington Univ.* (**1**, 1914; **3**, 1911)

Sabin, Florence R., M.D., Sc.D. 1333 E. 10th Ave., Denver 3, Colo. *Emeritus Member, Rockefeller Inst.; Member of National Academy of Sciences.* (**1**, 1923)

Sacks, Ernest, M.D. 97 Arundel Pl., St. Louis, Mo. *Emeritus Prof. of Clin. Neurological Surgery, Washington Univ. Med. Sch.* (**1**, 1910)

Sappington, Samuel W., M.D., D.Sc. P. O. Box 81, Bryn Mawr, Pa. *Prof of Pathology, Hahnemann Hospital.* (**6**, 1913)

Schultz, W. H., Ph.D. 3102 18th St., N.W., Washington, D. C. *Emeritus Prof. of Pharmacology, Univ. of Maryland.* (**1**, 1907; **3**, 1909)

Smith, Sybil L., A.M. 1421 44th St., N.W., Washington, D. C.

Snyder, Charles D. Ph.D. 4709 Keswick Rd., Baltimore, Md. *Emeritus Prof. of Exptl. Physiology, Johns Hopkins Univ.* (**1**, 1907)

Sweet, J. E., M.D., Sc.D. Unadilla, N. Y. *Emeritus Prof. of Surgical Res., Cornell Univ. Med. Col.* (**1**, 1913)

Walker, Ernest Linwood, S.D. 50 Winchester St., San Francisco, Calif. (**3**, 1931)

Wood, Horatio C., Jr., M.D. Ph.M. 319 S. 41st St., Philadelphia 4, Penna. *Professor of Pharmacology and Therapeutics, Univ. of Pennsylvania; Professor of Materia Medica, Philadelphia College of Pharmacy and Science.* (**3**, 1908)

Wulzen, Rosalind, Ph.D. Oregon State College, Corvallis. *Asst. Prof. of Zoology.* (**1**, 1916)

Yerkes, Robert M., Ph.D. Yale Laboratories of Primate Biology, New Haven, Conn. *Prof. of Psychobiology, Yale Univ.; Member of the Natl. Academy of Sciences.* (**1**, 1904)

MEMBERS

Abbott, Lynn D. F., Ph.D. Medical College of Virginia, Richmond, Va. *Assoc. Professor of Biochemistry.* (**2**, 1948)

Abramson, David I., M.D. Department of Medi-

cine, University of Illinois, Chicago 12. *Assistant Clinical Professor; Attending Physician, Hines Veterans Hospital; Associate Physician, Michael Reese Hospital.* (**1**, 1937)

Abramson, Harold A., M.D. 133 E. 58th St., New York City. *Assistant Professor of Physiology, College of Physicians and Surgeons, Columbia University.* (**1**, 1930; **2**, 1934)

Abreu, Benedict E., M.S., Ph.D., Division of Pharmacology, Univ. of California Medical School, San Francisco. *Assistant Professor of Pharmacology.* (**3**, 1941)

Acheson, George H., M.D. Univ. of Cincinnati, College of Medicine, Cincinnati, Ohio. *Head, Dept. of Physiology.* (**1**, 1942; **3**, 1945)

Adams, Georgian, M.A., D.Sc. United States Department of Agriculture, Washington 25, D. C. *Senior Experiment Station Administrator, Office of Experiment Stations.* (**5**, 1946)

Adams, John M., M.D. Department of Pediatrics, W. 205 University Hospital, University of Minnesota, Minneapolis. *Associate Professor of Pediatrics.* (**4**, 1947)

Adams, Mildred, M.A., Ph.D. Takamine Laboratory, Clifton, N. J. *Research Chemist.* (**2**, 1934)

Adams, R. Charles, M.D., C.M., M.S. (Anesthesiology), Mayo Clinic, Rochester, Minn. *Instructor in Anesthesia, Mayo Foundation, University of Minnesota. Member of Mayo Clinic Staff, Section on Anesthesia.* (**3**, 1942)

Adams, W. Lloyd, M.D., Ph.D. U. S. Public Health Service Hospital, Lexington, Ky. *Chief of E.E.N.T. Service and Personnel Physician.* (**3**, 1942)

Adams, Wright R., B.S., M.D. Dept. of Medicine, University of Chicago, Chicago 37, Ill. *Associate Professor of Medicine.* (**1**, 1946)

Addis, Thomas, M.D., M.R.C.P. Lane Hospital, San Francisco, Calif. *Professor of Medicine, Stanford University.* (**1**, 1922)

Ades, Harlow Whiting, Ph.D. Box 734, Emory University, Ga. (**1**, 1945)

Adler, Harry F., M.S., Ph.D., M.D. Chief, Dept. of Physiology, School of Aviation Medicine, Randolph Field, Texas. (**1**, 1943)

Adolph, Edward Frederick, Ph.D. School of Medicine and Dentistry, University of Rochester, Rochester, N. Y. *Professor of Physiology.* (**1**, 1921)

Adolph, William H., Ph.D. Peiping Union Medical College, Peiping, China. *Professor of Biochemistry.* (**2**, 1946; **5**, 1934)

Ahlquist, Raymond P., M.S., Ph.D. Dept. of Pharmacology, Univ. of Georgia School of Medicine, Augusta. *Professor and Chairman of the Dept. of Pharmacology.* (**3**, 1945)

Albanese, Anthony A., Ph.D. G-7 Tower Laby., Children's Medical Service, Bellevue Hospital, New York, N. Y. *Associate Professor of Pediatric Biochemistry, New York University College of Medicine.* (**2**, 1944)

Albaum, Harry G., M.Sc., Ph.D. Brooklyn College, Bedford Avenue and Avenue H, Brooklyn, N. Y. *Assistant Professor of Biology.* (**2**, 1947)

Albert, A., M.A., Ph.D., M.D. Mayo Foundation, Rochester, Minn. *Research Associate.* (**1**, 1947)

Albritton, Errett C., M.D. George Washington University Medical School, 1339 H St., N.W., Washington, D. C. *Professor of Physiology and Head of the Department of Physiology.* (**1**, 1933)

Alexander, Robert S., A.B., M.A., Ph.D. School of Medicine, Western Reserve Univ., 2109 Adelbert Road, Cleveland, Ohio. *Instructor in Physiology.* (**1**, 1946)

Algire, Glenn H., M.D. National Cancer Institute, Bethesda, Md. *Senior Assistant Surgeon, U. S. Public Health Service.* (**4**, 1945)

Allan, Frank N., M.D. Lahey Clinic, 605 Commonwealth Ave., Boston, Mass. *Executive Director of the Medical Department.* (**4**, 1930)

Allen, Charles Robert, Ph.D. University of Texas, School of Medicine, Galveston. *Assistant Professor of Department of Anesthesiology.* (**1**, 1943)

Allen, Frank W., Ph.D. 1557 Life Science Building, University of California, Berkeley, Calif. *Associate Professor.* (**2**, 1947)

Allen, Frederick M., M.D. 1031 Fifth Ave., New York City. *Professor of Medicine, Polyclinic Medical School and Hospital.* (**1R**, 1924; **4**, prior to 1920)

Allen, J. Garrott, M.D. University of Chicago, University Clinics, Chicago, Ill. *Instructor in Surgery.* (**1**, 1943)

Allen, Lane, M.S., Ph.D., M.D. University of Georgia School of Medicine, University Place, Augusta. *Associate Professor of Anatomy.* (**1**, 1939)

Allen, Shannon C., Ph.D. Cornell University, Public Health and Preventive Medicine, New York City. (**1**, 1945)

Allen, Thomas H., Ph.D. College of Physicians and Surgeons, Columbia University, 630 168th St., New York 32, N. Y. *Instructor in Physiology.* (**1**, 1947)

Allen, Willard M., M.D. Washington University School of Medicine, 630 S. Kingshighway Blvd., St. Louis, Mo. *Professor of Obstetrics and Gynecology.* (**1**, 1934)

Alles, Gordon A., M.S., Ph.D. 770 S. Arroyo Parkway, Pasadena, Calif. *Lecturer in Pharmacology, University of California Medical School, San Francisco, and Research Associate in Biology, California Institute of Technology, Pasadena.* (**1**, 1932; **3**, 1941)

Alling, Eric L., M.D. School of Medicine and

Dentistry, University of Rochester, Rochester 7, N. Y. *Associate in Radiology.* (**4,** 1947)

Allison, James B., Ph.D. Rutgers Univ., New Brunswick, New Jersey. *Director, Bureau of Biological Research.* (**2,** 1946)

Almquist, Herman J., Ph.D. F. E. Booth Co. Laboratories, 1290 Powell St., Emeryville, Calif. *Director of Research.* (**2,** 1937; **5,** 1937)

Alture-Werber, Erna. Jewish Hospital of Brooklyn, Brooklyn, N. Y. *Director, Research Laboratory.* (**6,** 1948)

Alvarez, Walter C., M.D. Mayo Clinic, Rochester, Minn. *Professor of Medicine, Mayo Foundation.* (**1,** 1917; **3R,** 1921)

Alving, Alf Sven, M.D. Billings Hospital, University of Chicago, 950 E. 59th St., Chicago, Ill. *Associate Professor of Medicine.* (**1,** 1939)

Amberg, Samuel, M.D., F.A.A.P. Mayo Clinic, Rochester, Minn. *Associate in Pediatrics; Associate Professor of Pediatrics, Mayo Foundation.* (**1R,** 1903; **2,** 1906; **3R,** 1909)

Amberson, William R., Ph.D. University of Maryland School of Medicine, Baltimore. *Professor of Physiology.* (**1,** 1924)

Ambrose, Anthony M., M.S., Ph.D. Western Regional Research Laboratory, 800 Buchanan St., Albany, Calif. *Pharmacologist, U. S. Department of Agriculture, Bureau of Agricultural Chemistry and Engineering.* (**3,** 1937)

Ames, Stanley R., Ph.D. Distillation Products, Inc., Rochester, N. Y. *Senior Research Chemist.* (**2,** 1948)

Amoss, Harold L., M.D. M.S., Dr. P.H., Sc.D. 68 Deerfield Drive, Greenwich, Conn. (**4,** 1922; **6,** 1917)

Andersch, Marie A., Ph.D. University Hospital, Baltimore, Md. *Biochemist, University Hospital; Instructor in Medicine, University of Maryland.* (**2,** 1940)

Andersen, Dorothy H., M.D. Babies Hospital, Broadway and 167th St., New York City. *Assistant Professor of Pathology, Columbia University.* (**4,** 1935)

Anderson, Evelyn M., M.A., M.D. 7206 Blair Rd., N.W., Washington 12, D. C. (**1,** 1934)

Anderson, Hamilton H., M.S., M.D. Pharmacology Laboratory, Univ. of California Medical School, San Francisco. *Professor of Pharmacology.* (**3,** 1931)

Anderson, Oscar Daniel, Ph.D. Dept. of Psychology, Cornell University, Ithaca, N. Y. (**1,** 1939)

Anderson, Rubert S., Ph.D. Univ. of South Dakota Sch. of Med., Vermillion, S. D. *Professor of Physiology.* (**1,** 1948)

Anderson, Rudolph J., Ph.D. Sterling Laboratory, Yale University, New Haven, Conn. *Professor of Chemistry.* (**2,** 1915)

Anderson, W. A. D., M.A., M.D. Marquette University School of Medicine, Milwaukee, Wis. *Professor of Pathology and Bacteriology.* (**4,** 1941)

Anderson, William E., M.A. Eastern State Farmers' Exchange, Westbrook Farm, Rockville, Conn. *Biochemist.* (**2,** 1931; **5,** 1933)

Andervont, H. B., Sc.D. National Cancer Institute, Bethesda, Md. *Biologist, U. S. Public Health Service.* (**4,** 1939)

Andrews, James C., Ph.D. University of North Carolina, Chapel Hill. *Professor of Biological Chemistry and Nutrition.* (**2,** 1925)

Andrus, E. Cowles, M.D. 24 E. Eager St., Baltimore 2, Md. *Assistant Visiting Physician; Associate Professor of Medicine, Johns Hopkins University.* (**1,** 1925)

Anfinsen, Christian B., Jr., M.S., Ph.D. Harvard Univ. Med. Sch., Boston, Mass. *Associate in Biological Chemistry.* (**2,** 1946)

Angerer, Clifford, Ph.D. Ohio State University, Columbus. *Associate Professor of Physiology.* (**1,** 1943)

Angevine, D. Murray, M.D. Univ. of Wisconsin Medical School, Madison, Wis. *Professor of Pathology.* (**4,** 1940)

Ansbacher, Stefan, M.S., D.Sc. 17 Loel Court, Rockville Centre, N. Y. (**2,** 1939)

Anslow, W. Parker, Jr., Ph.D. New York University College of Medicine, New York City. *Asst. Professor of Physiology.* (**2,** 1948)

Anson, Mortimer L., Ph.D. Continental Foods, Inc., Hoboken, N. J. *Director of Chemical Research.* (**2,** 1937)

Apperly, Frank L., M.A., D.Sc., M.D., F.R.C.P. Medical College of Virginia, Richmond. *Professor of Pathology.* (**4,** 1936)

Archibald, Reginald M., M.A., Ph.D., M.D. The Rockefeller Institute for Medical Research, New York, New York. (**2,** 1947)

Arkin, Aaron, M.A., M.D., Ph.D. Suite 2006, 25 E. Washington St., Chicago, Ill. *Rush Professor of Medicine, U. of Ill. Prof. and Chairman, Dept. of Medicine, Cook County Graduate School.* (**1,** 1914; **3,** 1919)

Armstrong, Harry G., M.D. Randolph Air Force Base, Randolph Field, Texas. *Brig. Gen. AF, Sch. of Aviation Med., Comdt.* (**1,** 1948)

Armstrong, Philip B., M.D. College of Medicine, Syracuse Univ., Syracuse 10, N. Y. *Professor of Anatomy.* (**1,** 1945)

Armstrong, W. D., M.S., M.D., Ph.D. 17 Medical Sciences Bldg., University of Minnesota, Minneapolis. *Professor and Head of Physiological Chemistry.* (**2,** 1938)

Arnold, Aaron, M.S., Ph.D. Sterling-Winthrop Research Institute, Rensselaer, N. Y. *Head of Nutritional Research Laboratory.* (**5,** 1947)

Arnold, Lloyd, A.M., M.D. 1538 E. 57th St., Chicago, Ill. (**4,** 1930; **6,** 1925)

Arnow, L. Earle, Ph.D., M.D. Medical Research

Division, Sharp and Dohme, Glenolden, Pa. *Director of Research.* (2, 1940)

Aronson, Joseph D., M.D. Phipps Institute, University of Pennsylvania, Philadelphia 4. *Associate Professor of Bacteriology.* (4, 1927; 6, 1925)

Artom, Camillo, M.D. Bowman Gray School of Medicine, Winston-Salem, N. C. *Professor of Biochemistry.* (2, 1944)

Ascham, Leah, Ph.D. Kansas State College, Manhattan. *Professor, School of Home Economics.* (5, 1935)

Asenjo, Conrado F., Ch.E., M.S., Ph.D. School of Tropical Medicine, San Juan, Puerto Rico. *Associate Professor of Chemistry and Head of Department of Chemistry and Nutrition, School of Tropical Medicine of the University of Puerto Rico under the Auspices of Columbia University.* (2, 1944)

Ashburn, Llewellyn L., M.D. National Institute of Health, Bethesda 14, Md. *Senior Surgeon, U. S. Public Health Service.* (4, 1947)

Ashby, Winifred M., Ph.D. 305 10th St., N.E., Washington, D. C. *Senior Scientist, Federal Security Agency (St. Elizabeth's Hospital).* (6, 1923)

Ashman, Richard, M.S., Ph.D. School of Medicine, Louisiana State University, New Orleans. *Professor of Physiology.* (1, 1925)

Astwood, Edwin Bennet, M.D., C.M., Ph.D. Pratt Diagnostic Hospital, 30 Bennet St., Boston, Mass. *Research Professor of Medicine at Tufts Medical School.* (1, 1939)

Atkin, Lawrence, Ph.D. Wallerstein Labs., 180 Madison Ave., New York 16, N. Y. *Research Chemist.* (2, 1946; 5, 1946)

Aub, Joseph C., M.D. Harvard Medical School, Boston 15, Mass. *Professor of Research Medicine.* (1, 1919; 5, 1933)

Austin, J. Harold, M.D. 711 Maloney Clinic, 36th and Spruce Sts., Philadelphia, Pa. *Director, Pepper Laboratory.* (2, 1922)

Avery, O. T., M.D., Sc.D., LL.D. Hoods Hill Road, Nashville, Tenn. *Member Emeritus, Rockefeller Institute for Medical Research.* (4, 1921; 6, 1920)

Axelrod, Bernard, Ph.D. Western Regional Research Laboratory, Albany, Calif. *Associate Chemist.* (2, 1948)

Axtmayer, Joseph H., B.S., A.M., Ph.D. University of Puerto Rico, Rio Piedras, Puerto Rico. *Professor of Chemistry.* (5, 1935)

Ayer, Conrad, M.D. Bureau of Health, Augusta, Maine. (6, 1944)

Bach, L. M. N., Ph.D. Tulane Univ. School of Med., New Orleans, La. *Professor of Physiology.* (1, 1948)

Bachem, Albert, Ph.D. College of Medicine, University of Illinois, 1853 W. Polk St., Chicago. *Professor of Biophysics.* (1, 1933)

Bachman, Carl, M.D. University of Pennsylvania School of Medicine, Philadelphia. *Prof. of Obstetrics and Gynecology.* (2, 1941)

Baer, Erich, Ph.D. Banting and Best Department of Medical Research, 100 College St., Toronto, Ontario, Canada. *Associate Professor.* (2, 1942)

Baernstein, Harry D., M.S., Ph.D. National Institute of Health, Bethesda, Md. *Senior Biochemist.* (2, 1934)

Baetjer, Anna M., D.Sc. Johns Hopkins School of Hygiene and Public Health, 615 N. Wolfe St., Baltimore 5, Md. *Assistant Professor of Physiological Hygiene.* (1, 1929)

Bahrs, Alice M., M.A., Ph.D. Deaconess Hospital, Spokane, Wash. (1, 1933)

Bailey, Cameron Vernon, M.D., C.M. 303 E. 20th St., New York City. *Clinical Professor of Medicine, New York Post-Graduate Medical School, Columbia University.* (2, 1920; 5, 1933)

Bailey, Orville T. M.D. Harvard Univ. Medical School, 25 Shattuck St., Boston, Mass. *Assistant Professor in Pathology.* (4, 1939)

Bailey, Percival, M.D., Ph.D. Univ. of Illinois College of Medicine, 1853 West Polk St., Chicago 12, Ill. *Professor of Neurology and Neurosurgery.* (1, 1941)

Baitsell, George Alfred, A.M., Ph.D. Yale University, Osborn Zoological Laby., 165 Prospect St., New Haven, Conn. *Professor of Biology.* (1, 1915)

Baker, A. B., M.D. University of Minnesota Medical School, 19 Millard Hall, Minneapolis. *Director and Professor, Division of Neurology and Neuropathology.* (4, 1940)

Baker, James A., M.D. New York State Veterinary College, Cornell University, Ithaca, N. Y. *Professor of Bacteriology.* (4, 1947)

Baker, Roger D., M.D. Medical College of Alabama, Birmingham 5. *Professor of Pathology.* (4, 1939)

Baldes, Edward J., A.M., Ph.D. 427 Fifth Ave., S.W., Rochester, Minn. *Assistant Professor of Physics, Mayo Foundation, Graduate School, University of Minnesota.* (1, 1930)

Baldwin, Francis Marsh, A.M., Ph.D. University of Southern California, Los Angeles. *Professor of Zoology and Director of Experimental Marine Biology.* (1, 1919)

Bale, William F., Ph.D. University of Rochester, School of Medicine and Dentistry, Rochester, N. Y. *Associate in Radiology.* (1, 1943)

Ball, Eric G., M.A., Ph.D. Harvard Medical School, Boston, Mass. *Professor of Biochemistry.* (2, 1934)

Ball, Howard A., M.D. San Diego County General Hospital, N. Front St., San Diego, Calif. *Path-*

ologist, San Diego County General and Paradise Valley Hospitals. (4, 1937)

Balls, Arnold Kent, Ph.D. Enzyme Research Laboratory, U. S. Bureau of Agricultural and Industrial Chemistry, Western Regional Research Laboratory, 800 Buchanan St., Albany 6, Calif. *Head Chemist; Adjunct Professor, The George Washington University* (on leave). (2, 1932)

Bang, Frederick B., M.D. Johns Hopkins Hospital, Baltimore, Maryland. *Assistant Professor in Medicine.* (4, 1947)

Banus, Mario Garcia, M.Sc., D.Sc. Bright Meadows, Chestertown, Md. (1, 1927)

Bard, Philip, A.M., Ph.D. Johns Hopkins University School of Medicine, 710 N. Washington St., Baltimore, Md. *Professor of Physiology; Member National Academy of Sciences.* (1, 1929)

Barker, H. A., Ph.D. 3048 Life Science Bldg., Univ. of California, Berkeley 4, Calif. *Professor of Soil Microbiology.* (2, 1946)

Barker, S. B., Ph.D. College of Medicine, State University of Iowa, Iowa City. *Associate Professor of Physiology.* (1, 1938)

Barlow, O. W., M.D., Ph.D. R.F.D. 3 Warwick Road, Winchester, N. H. (1, 1936; 3, 1944)

Barnes, B. O., A.M., Ph.D. Box 967, Station Hospital, KAAF, Kingman, Ariz. *Professor of Health Education, University of Denver.* (1, 1932)

Barnes, LaVerne A., B.S., M.S., Ph.D. Naval Medical Research Institute, National Naval Medical Center, Bethesda 14, Maryland. *Head, Bacteriology Facility.* (6, 1931)

Barnes, Richard Henry, Ph.D. Sharp & Dohme, Glenolden, Pa. *Director of Biochemical Research, Medical Research Division.* (2, 1941; 5, 1944)

Barnes, Thomas C., D.Sc. Hahnemann Medical College and Hospital of Philadelpia, Philadelphia, Pa. *Assoc. Professor of Pharmacology.* (1, 1942; 3, 1948)

Barnum, Cyrus P., Jr., Ph.D. 210 Millard Hall, Univ. of Minnesota, Minneapolis 14, Minn. *Associate Professor of Physiological Chemistry.* (2, 1946)

Barott, Herbert G., E.E. U. S. Department of Agriculture, National Agricultural Research Center, Beltsville, Md. *Biophysicist, Animal Nutrition Division, Bureau of Animal Industry.* (5, 1938)

Barrera, S. Eugene, M.D. Albany Medical College, New Scotland Ave., Albany, N. Y. (1, 1937)

Barron, Donald H., M.S., Ph.D., M.A. (Cambridge) Yale University School of Medicine, New Haven, Conn. *Associate Professor of Physiology.* (1, 1943)

Barron, E. S. Guzman, M.D. Dept. of Medicine, Univ. of Chicago, Chicago 37, Ill. *Associate Professor of Biochemistry.* (2, 1931)

Bartley, S. Howard, Ph.D. P. O. Box 763, East Lansing, Mich. (1, 1935)

Bass, Allan D., M.S., M.D. Univ. of Syracuse School of Medicine, Syracuse, N. Y. *Professor of Pharmacology.* (3, 1944)

Batchelder, Esther L., A.M., Ph.D. 8433 Woodcliff Ct., Silver Spring, Md. (5, 1933)

Bateman, John B., Ph.D. Physical & Chem. Division, Camp Detrick, Frederick, Md. (1, 1945)

Bates, Robert W., Ph.D. E. R. Squibb and Sons, Biological Laboratories, New Brunswick, N. J. *Head, Endocrine Development Dept.* (2, 1936)

Batterman, Robert C., M.D. New York University College of Medicine, 477 First Ave., New York City. *Instructor in Therapeutics.* (3, 1941)

Baudisch, Oskar, Ph.D. Saratoga Springs, N. Y. *Director of Research, Saratoga Springs Authority, State of New York.* (2, 1931)

Bauer, J. H., M.D. The Rockefeller Foundation, 20 Rue de la Baume, Paris, (8e) France. (4, 1935)

Bauer, Walter, M.D. Massachusetts General Hospital, Boston. *Associate Professor and Tutor in Medicine, Harvard Medical School; Colonel, MC, Army Service Forces Hq. 8th Service Command, Dallas, Texas.* (1, 1929)

Bauernfeind, J. C., M.S., Ph.D. Hoffmann-La Roche, Inc., Nutley 10, N. J. *Chief of Applied Nutrition.* (5, 1947)

Bauman, Louis, M.D. Columbia Presbyterian Medical Center, New York City. *Assistant Professor of Clinical Medicine (Retired), Columbia University.* (2, 1912)

Baumann, Carl A., M.S., Ph.D. Biochemistry Dept., University of Wisconsin, Madison. *Professor of Biochemistry.* (2, 1938; 5, 1938)

Baumann, Emil J., Ph.D. 7 Church Lane, Scarsdale, N. Y. *Chemist, Montefiore Hospital.* (2, 1922)

Baumberger, J. Percy, M.S., Sc.D. Physiology Department, Stanford University, Calif. *Professor of Physiology.* (1, 1921)

Baxter, James G., Ph.D. 228 Sagamore Drive, Rochester 12, N. Y. *Supervisor, Organic Research Dept., Distillation Products, Inc.* (2, 1946)

Baxter, James H., M.D. Dept. of Medicine, Johns Hopkins Hospital, Baltimore, Md. (3, 1948)

Bayne-Jones, Stanhope, M.A., Sc.D., M.D. New York Hospital, Cornell Medical Center, 525 E. 68th St., New York 21, N. Y. *President, Joint Administrative Board.* (4, 1927; 6, 1917)

Bazett, Henry C., M.A., M.D., F.R.C.S. University of Pennsylvania, School of Medicine, Philadelphia. *Professor of Physiology.* (1, 1921)

Beach, Eliot F., Ph.D. Metropolitan Life In-

surance Co., New York City. *Research Biochemist.* (**2,** 1941; **5,** 1942)

Beadle, Buell W., M.S., Ph.D. George W. Gooch Lab., Ltd., Los Angeles, Calif. *Director.* (**2,** 1947)

Bean, John W., M.S., Ph.D., M.D. University of Michigan, Ann Arbor. *Professor of Physiology.* (**1,** 1932)

Beard, Howard H., Ph.D. Holy Cross Hospital, Chicago, Ill. (**2,** 1928; **5,** 1933)

Beard, Joseph W., M.D. Duke Hospital, Durham, N. C. *Professor of Surgery.* (**4,** 1938; **6,** 1940)

Beazell, James Myler, Ph.D., M.D. 104 South Michigan Ave., Chicago, Ill. *Instructor in Physiology and Pharmacology, Northwestern Univ. School of Medicine.* (**1,** 1939)

Beck, Claude S., M.D. Lakeside Hospital, Cleveland, O. *Professor of Neurosurgery, Western Reserve University; Associate Surgeon, Lakeside Hospital.* (**4,** 1930)

Beck, Lyle V., M.S., Ph.D. 9503 Edgley Road, Bethesda, Md. (**1,** 1941)

Becker, R. Frederick, M.S., Ph.D. Dept. of Anatomy, Univ. of Washington, Seattle 5, Wash. (**1,** 1941)

Becker, Theodore J., M.A., Ph.D. Sterling-Winthrop Research Institute, 33 Riverside Avenue, Rensselaer, N. Y. *Head, Pharmacology Section.* (**3,** 1944)

Beckman, Harry, M.D. Marquette University School of Medicine, Milwaukee, Wis. *Professor and Director of the Department of Pharmacology.* (**3,** 1937)

Beecher, Henry K., M.D. Massachusetts General Hospital, Boston. *Dorr Professor of Research in Anaesthesia, Harvard Medical School; Anesthetist-in-Chief, Massachusetts General Hospital.* (**3,** 1940)

Behnke, Albert R., M.S., M.D. Naval Medical Research Institute, Bethesda, Md. *Executive Director.* (**1,** 1946)

Behre, Jeanette Allen, Ph.D. Department of Biochemistry, College of Physicians and Surgeons, 630 W. 168th St., New York City. *Associate.* (**2,** 1925)

Behrmann, Vivian G., Ph.D. Wayne Univ., Detroit, Mich. *Instr. Grad. School;* Henry Ford Hosp., *Res. Physiologist.* (**1,** 1948)

Belding, David L., M.D. Boston University School of Medicine, Boston, Mass. *Professor of Bacteriology and Experimental Pathology.* (**4,** 1927)

Belding, Harwood S., Ph.D. QMC Climatic Laboratory, Lawrence, Mass. *Director.* (**1,** 1945)

Bell, E. T., M.D. 110 Anatomy Bldg., University of Minnesota, Minneapolis. *Professor of Pathology.* (**4,** 1931)

Bender, M. B., M.D. New York University College of Medicine. *Associate Professor of Neurology and Head of the Laboratory of Experimental Medicine.* (**1,** 1947)

Benedict, Francis Gano, Ph.D., Sc.D., M.D. Machiasport, Me. *Member of the National Academy of Sciences.* (**1R,** 1904; **2,** 1906)

Benditt, Earl P., M.D. Department of Pathology, University of Chicago Clinics, Chicago 37, Ill. *Assistant Professor.* (**4,** 1947)

Benham, Olive Ray, B.S. Connecticut State Department of Health, Bureau of Laboratories, Hartford. *Chief Serologist.* (**6,** 1944)

Bennett, A. Lawrence, Ph.D., M.D. College of Medicine, University of Nebraska, Omaha. *Professor of Physiology and Pharmacology.* (**1,** 1941)

Bennett, Granville A., M.D. University of Illinois College of Medicine, 1853 West Polk Street, Chicago. *Professor of Pathology.* (**4,** 1931)

Bennett, Henry S., M.D. University of Washington School of Medicine, Seattle, Wash. *Dept. of Anatomy.* (**1,** 1946)

Bennett, Leslie L., M.D. University of California, Berkeley 4. *Assistant Professor of Physiology.* (**1,** 1945)

Bennett, Mary Adelia, M.A., Ph.D. Lankenau Hospital Research Institute, Philadelphia, Pa. *Research Biochemist.* (**2,** 1941)

Benson, Clara C., Ph.D. 160 Dorset St., West, Port Hope, Ontario, Canada. *Professor Emeritus of Food Chemistry, University of Toronto.* (**2,** 1906)

Berg, Benjamin N., M.D. 630 W. 168th St., New York City. *Associate in Pathology, Columbia University, College of Physicians and Surgeons.* (**4,** 1928)

Berg, Clarence P., Ph.D. Chemistry Department, State University of Iowa, Iowa City. *Professor of Biochemistry.* (**2,** 1933; **5,** 1936)

Berg, William N., Ph.D. 225 W. 106th St., New York City. *Biochemist.* (**2,** 1906)

Bergeim, Olaf, M.S., Ph.D. Univ. of Illinois College of Medicine, Chicago. *Prof. of Biochemistry.* (**1,** 1916; **2,** 1914)

Bergmann, Werner, Ph.D. Sterling Chemistry Lab., Yale University, New Haven, Conn. *Professor of Chemistry.* (**2,** 1934)

Berkson, Joseph, M.A., M.D., D.Sc. Mayo Clinic, Rochester, Minn. (**1,** 1933)

Bernard, Richard, M.Sc., Ph.D. Department of Biology, Laval University, Blvd. de l'Entente, Quebec, Canada. *Assistant Professor of Physiology.* (**1,** 1947)

Bernheim, Frederick, Ph.D. Box 3109, Duke Medical School, Durham, N. C. *Professor of Pharmacology.* (**2,** 1933; **3,** 1935)

Bernthal, Theodore G., M.S., M.D. Dept. of Physiology, Medical College, State of South

Carolina, Charleston 16, S. C. *Professor of Physiology.* (**1**, 1932)

Berry, George Packer, M.D. University of Rochester, Rochester, N. Y. *Associate Dean; Professor of Bacteriology; Associate Professor of Medicine.* (**4**, 1938; **6**, 1934)

Dessey, Otto A., Ph.D. University of Illinois College of Medicine, 1853 W. Polk St., Chicago, Ill. *Professor and Head, Dept. of Biological Chemistry.* (**2**, 1938; **5**, 1943)

Best, Charles Herbert, C.B.E., M.A., M.D., D.Sc. (London), D.Sc. (Chicago), F.R.S., F.R.C.P.(c), University of Toronto, Toronto, Ont., Canada. *Director, Banting and Best Department of Medical Research and Department of Physiology.* (**1**, 1923; **2**, 1923)

Bethell, Frank H., M.D. 409 Lenawee Drive, Ann Arbor, Mich. *Professor of Internal Medicine and Assistant Director of the Thomas Henry Simpson Memorial Institute.* (**4**, 1936)

Bethke, Roland M., M.S., Ph.D. Ohio Agricultural Experiment Station, Wooster. *In Charge of Nutritional Investigations.* (**2**, 1928; **5**, 1933)

Beutner, R., M.D., Ph.D. 235 N. 15th St., Philadelphia, Pa. *Professor and Head of Department of Pharmacology, Hahnemann Medical College.* (**1**, 1924; **3**, 1924)

Beyer, Karl H., Ph.D., M.D. Medical-Research Division, Sharp and Dohme, Inc., P.O. Box 7259, Glenolden, Pa. *Director of Pharmacological Research.* (**1**, 1942; **3**, 1944)

Bier, Otto, M.D. Instituto Postal 119-A, Sao Paulo, Brazil. (**6**, 1947)

Bieter, Raymond N., M.D., Ph.D. University of Minnesota, Minneapolis. *Professor of Pharmacology.* (**3**, 1930)

Bills, Charles E., M.A., Ph.D. Mead Johnson & Co., Evansville, Ind. *Director of Research.* (**2**, 1928; **5**, 1935)

Bing, Franklin C., Ph.D. 1135 Fullerton Ave., Chicago, Ill. *Director, American Institute of Baking; Assistant Professor of Physiology, Northwestern University Medical School.* (**2**, 1931; **5**, 1934)

Bing, Richard J., M.D. Department of Surgery, Johns Hopkins Hospital, Baltimore 5, Md. *Assistant Professor of Surgery.* (**1**, 1942)

Binger, Carl A., M.D. 125 E. 73rd St., New York City. *Assistant Professor of Clinical Medicine (Psychiatry), Cornell University Medical College.* (**1**, 1927)

Binkley, Francis, Ph.D. School of Medicine, University of Utah, Salt Lake City, Utah. *Associate Professor.* (**2**, 1947)

Binkley, Stephen Bennett, M.S., Ph.D. Bristol Laboratories, Inc., Syracuse, N. Y. *Assistant Director of Research.* (**2**, 1941)

Bird, Herbert R., M.S., Ph.D. Bureau of Animal Industry, Agricultural Research Center, Beltsville, Md. *Senior Biochemist.* (**5**, 1947)

Bird, Orson D., M.S., Ph.D. Research Laboratories, Parke, Davis and Co., Detroit 32, Mich. *Research Biochemist* (**2**, 1947)

Bisbey, Bertha, A.M., Ph.D. Gwynn Hall, University of Missouri, Columbia. *Professor of Nutrition.* (**5**, 1933)

Bischoff, Fritz E., M.S., Ph.D. Cottage Hospital, Santa Barbara, Calif. *Director of Research.* (**2**, 1928; **5**, 1933)

Bishop, George H., Ph.D. Washington University Medical School, Euclid and Kingshighway, St. Louis, Mo. *Professor of Bio-Physics.* (**1**, 1923)

Biskind, Gerson R., M.D. 240 Stockton St., San Francisco, Calif. *Pathologist, Mt. Zion Hospital; Clinical Instructor in Pathology, University of California Medical School.* (**4**, 1944)

Black, Alex, M.S., Ph.D. Department of Animal Nutrition, Pennsylvania State College, State College, Penn. *Professor of Animal Nutrition.* (**5**, 1947)

Black, Edgar C., Ph.D. Department of Biology and Botany, University of British Columbia, Vancouver, B.C., Canada. (**1**, 1943)

Black, Simon, Ph.D. Univ. of Chicago, Chicago, Ill. *Instructor, Dept. of Medicine.* (**2**, 1948)

Blair, Edgar A., M.S., Ph.D. Armored Medical Research Laboratory, Fort Knox, Ky. *Lt. Col.* (**1**, 1936)

Blair, Henry A., M.Sc., Ph.D. University of Rochester School of Medicine and Dentistry, Rochester, N. Y. *Professor of Physiology and Director of Dept. of Radiation Biology.* (**1**, 1934)

Blake, Francis G., M.D., M.A. (hon.), Sc.D. Yale University School of Medicine, New Haven, Conn. *Sterling Professor of Medicine.* (**4**, prior to 1920; **6**, 1921)

Blanchard Ernest W., Ph.B., M.S., Ph.D. Schieffelin and Co., 30 Cooper Sq., New York 3, N. Y. *Director of Research.* (**1**, 1946)

Blankenhorn, M. A., M.D. University of Cincinnati, Cincinnati, O. *Professor of Medicine.* (**4**, 1932)

Blatherwick, Norman R., M.S., Ph.D., Sc.D. Metropolitan Life Ins. Co., 1 Madison Ave., New York City. *Director of Biochemical Laboratory.* (**1**, 1915; **2**, 1915; **5**, 1934)

Blau, Nathan F., Ph.D. Veterans Administration Hospital, Wichita, Kan. *Research Biochemist.* (**2**, 1928)

Blish, Morris J., M.A., Ph.D. Amino Products Company, Rossford, O. *Research Director.* (**2**, 1944)

Bliss, Alfred, M.A., Ph.D. Tufts College Medical School, Boston, Mass. *Associate Professor of Physiology.* (**1**, 1947)

Bliss, Chester Ittner, Ph.D. Conn. Agr. Expt. Sta., P. O. Box 1106, New Haven. *Biometrician,*

Lecturer in Biometry, Yale University. (3, 1944)

Bliss, Eleanor A., Sc.D. Department of Preventive Medicine, Johns Hopkins Hospital, 615 N. Wolfe St., Baltimore, Md. *Associate in Preventive Medicine, Johns Hopkins University, School of Medicine.* (6, 1931)

Bloch, Konrad, Ph.D. Department of Biochemistry, University of Chicago, Chicago, Illinois. *Associate Professor of Biochemistry.* (2, 1944)

Block, Richard J., Ph.D. 15 Cooper Rd., Scarsdale, N. Y. *Director of Research, C. M. Armstrong Co.; Associate, Department of Physiology and Biochemistry, New York Medical College, Flower and Fifth Avenue Hospital.* (2, 1934; 5, 1933)

Block, Walter D., M.S., Ph.D. 813 East McCreight Ave., Springfield, Ohio. (2, 1942)

Bloom, William, M.D. 1419 E. 56th St., Chicago, Ill. *Professor of Anatomy, University of Chicago.* (4, 1930)

Bloomfield, A. L., M.D. Stanford University Hospital, San Francisco, Calif. *Professor of Medicine.* (3, 1927; 4, 1927)

Bloor, W. R., A.M., Ph.D., LL.D. School of Medicine and Dentistry, University of Rochester, Rochester, N. Y. *Professor of Biochemistry.* (1R, 1915; 2, 1910)

Blum, Harold F., Ph.D. Department of Biology, Princeton University, Princeton, N. J. *Physiologist, National Cancer Institute, and Visiting Lecturer.* (1, 1928)

Blumberg, Harold, Sc.D. Research Laboratories, Endo Products, Inc. 84-40 101st St., Richmond Hill 18, N. Y. (5, 1942)

Blumenstock, Julius, M.D. Veterans Administration Hospital, Sheridan, Wyoming. (1, 1925)

Blumgart, Herrmann L., M.D. Beth Israel Hospital, 330 Brookline Ave., Boston, Mass. *Associate Professor of Medicine, Harvard Medical School; Lt. Col., M.C.* (1, 1927)

Blunt, Katharine, Ph.D., LL.D. 38 Glenwood Ave., New London, Conn. *President Emeritus, Connecticut College for Women.* (2, 1921)

Bock, Joseph C., Ch.E., Ph.D. 2324 N. 46th St., Milwaukee 10, Wis. *Professor Emeritus of Biochemistry, Marquette Univ. Medical School; Biochemist, Milwaukee County Hospital.* (2, 1916)

Bodansky, Aaron, Ph.D. Hospital for Joint Diseases, 1919 Madison Ave., New York City. *Biological Chemist.* (2, 1926)

Bodansky, Oscar, Ph.D., M.D. Memorial Hospital, Cancer Center, New York City. *Clinical Biochemist; Assoc. Member, Sloan-Kettering Institute for Cancer Research; Assoc. Professor of Clinical Pharmacology, Cornell Univ. Medical College.* (2, 1937; 3, 1942)

Bodine, Joseph Hall, Ph.D. State University of Iowa, Iowa City. *Professor and Head of Department of Zoology.* (1, 1925)

Boell, Edgar J., Ph.D. Osborn Zoological Laboratory, Yale University, New Haven, Conn. *Ross G. Harrison Professor of Experimental Zoology.* (1, 1942)

Boger, William P., M.D. Medical Research Division, Sharp and Dohme, Inc., Glenolden, Pa. *Assoc. Medical Director; Instructor in Medicine, Univ. of Pa. Sch. of Medicine and Graduate Sch, of Medicine.* (3, 1948)

Bogert, L. Jean, Ph.D. Hotel Claremont, Berkeley, Calif. (2, 1917)

Bogert, Marston Taylor, Sc.D., LL.D., R.N.D. 1158 Fifth Ave., Apt. 14B., New York 29, N. Y. *Professor Emeritus of Organic Chemistry, Columbia University; Member, National Academy of Sciences.* (2, 1925)

Boivin, Andre. M.D. La Faculte de Medecine de Strasbourg, Strasbourg, France. *Professeur; member de l'Academie de Medecine de France.* (6, 1948)

Bolliger, Adolph, Ph.D. Gordon Craig Research Laboratories, University of Sydney, Sydney, Australia. *Director of Research.* (2, 1928)

Bollman, J. L., M.D. Mayo Clinic, Rochester, Minn. *Chairman, Division of Experimental Medicine; Professor of Physiology, Mayo Foundation.* (4, 1927)

Bond, Glenn C., Ph.D., M.D. The Upjohn Co., Research Laboratories, Kalamazoo, Mich. *Assistant Dept. Head, Bacteriology Research.* (6, 1939)

Bondi, Amedeo. Hahnemann Medical College, Philadelphia, Pa. *Professor and Head, Dept. of Bacteriology.* (6, 1948)

Bonner, David M., Ph.D. Osborn Botanical Laboratory, Yale Univ., New Haven, Conn. *Assoc. Professor and Research Associate.* (2, 1948)

Bonnycastle, Desmond D., M.D., Ph.D. Yale University School of Medicine, 333 Cedar Street, New Haven, Conn. *Assistant Professor of Pharmacology.* (3, 1947)

Bonsnes, Roy W., B.S., Ph.D. Department of Biochemistry, Cornell University Medical College, 1300 York Ave., New York 21, N. Y. *Assistant Professor of Biochemistry in Obstetrics.* (2, 1947)

Booher, Lela E., Ph.D. General Mills, Inc., Minneapolis, Minn. *Chief Nutritionist and Director of Nutrition Lab.* (2, 1933; 5, 1933)

Booker, Walter M., Ph.D. Howard Univ. Sch. of Med., Washington, D. C. *Assoc. Professor of Pharmacology.* (1, 3, 1948)

Bookman, Samuel, M.A., Ph.D. 624 Madison Ave., New York City. *Consulting Chemist, Mt. Sinai Hospital.* (2, 1912)

Boor, Alden K., M.S., Ph.D. Basic Science Division, Camp Detrick, Frederick, Md. (2, 1931)

Boothby, Walter M., M.D. Mayo Clinic, Rochester, Minn. *Emeritus Chief, Clin. Metabolism*

Sect., Div. of Med.; Emeritus Professor of Exper. Metabolism, Mayo Found. Univ. of Lund, Sweden. *Special Res. Consultant, Dept. of Physiology.* (**1,** 1915; **2,** 1920; **3R,** 1923; **4,** 1924)

Bordley, James, III, M.D. Mary Imogene Bassett Hospital, Cooperstown, N. Y. (**1,** 1938)

Borek, Ernest, Ph.D. College of the City of New York, Convent Ave. and 140th St., New York City. *Asst. Professor; Research Associate, Biochemistry, Columbia Univ.* (**2,** 1947)

Boroff, Daniel A., M.A., M.S. Rheumatic Fever Research Institute, 306 S. California Ave., Chicago, Ill. *Medical Bacteriologist; Project Chief.* (**6,** 1947)

Borsook, Henry, M.D., Ph.D. California Institute of Technology, Pasadena 4. *Professor of Biochemistry.* (**2,** 1931)

Bosshardt, David K., M.S., Ph.D. Medical Research Division, Sharp and Dohme, Inc., Glenolden, Pennsylvania. *Research Biochemist.* (**5,** 1947)

Bosworth, Alfred Willson, A.M., M.D. R. D. 4, Circleville, O. *Consulting Chemist.* (**2,** 1936; **5,** 1935)

Bott, Phyllis A., M.S., Ph.D. Woman's Medical College of Pennsylvania, Henry Ave. and Abbotsford Rd., Philadelphia. *Professor of Physiological Chemistry and Chairman of the Department.* (**2,** 1938)

Boucher, Robert V., M.A., Ph.D. 303 Frear Labs. State College, Pa. *Professor of Agricultural and Biological Chemistry.* (**5,** 1945)

Bouman, H. D., M.D. University of Wisconsin Medical School, Madison. *Professor of Physical Medicine.* (**1,** 1943))

Bourne, Wesley, M.D., C.M., M.Sc., F.R.C.P., D.A. (R.C.P. & S., Eng.), F.A.C.A. McGill University, Montreal, Canada. *Chairman, Dept. of Anesthesia.* (**3,** 1936)

Bourquin, Helen, M.S., Ph.D. 1331 N. Tejon St., Colorado Springs, Colo. (**1,** 1925)

Bowen, William J., Ph.D. USPHS, National Institutes of Health, Bethesda, Md. *Sr. Asst. Scientist.* (**1,** 1948)

Bowman, Donald E., A.M., Ph.D. 6956 Warwick Rd., Indianapolis, Ind. *Associate Professor of Biochemistry, Indiana University School of Medicine.* (**2,** 1944)

Bowman, Katherine L., B.A. 20 Plaza Street, Brooklyn 17, N. Y. (**6,** 1946)

Boxer, George E., Ph.D. 605 Girard Ave., Westfield, N. J. *Senior Chemist, Research and Development Division, Merck & Co., Inc.* (**2,** 1946)

Boyd, Eldon M., M.A., M.D., C.M. Queen's University, Kingston, Ontario, Canada. *Professor and Head of the Department of Pharmacology.* (**3,** 1941)

Boyd, J. Milford, M.S., Ph.D. Hahnemann Med. Coll., Philadelphia, Pa. *Prof. and Head, Dept. of Chemistry.* (**2,** 1947)

Boyd, T. E., Ph.D. 9 Walworth Ave., Scarsdale, N. Y. (**1,** 1924)

Boyd, William C., A.M., Ph.D. Boston University School of Medicine, 80 E. Concord St., Boston, Mass. *Associate Professor of Biochemistry.* (**6,** 1933)

Boyden, Allan A., Rutgers Univ., New Brunswick, N. J. *Professor of Zoology.* (**6,** 1948)

Boyden, Edward A., A.M., Ph.D. University of Minnesota, Minneapolis 14. *Professor of Anatomy and Chairman of the Department.* (**1,** 1929)

Boyer, Paul D., M.S., Ph.D. Division of Biochemistry, College of Agriculture, University of Minnesota, St. Paul 1. *Associate Professor.* (**2,** 1944)

Boyle, Paul E., D.M.D. School of Dentistry, University of Pennsylvania, 40th and Spruce Sts., Philadelphia 4. *Professor of Oral Pathology.* (**4,** 1939)

Bozicevich, John, M.A. USPHS, National Institutes of Health, Bethesda, Md. *Head, Subsection of Immunology, Trop. Dis. Div.* (**6,** 1948)

Bozler, Emil, Ph.D. Ohio State University, Columbus. *Professor of Physiology.* (**1,** 1932)

Bradbury, James T., M.S., ScD. Dept. of Obstetrics and Gynecology, University Hospitals, Iowa City. *Assistant Professor of Obstetrics and Gynecology* (**1,** 1941)

Bradley, Harold C., Ph.D. 2639 Durant Ave., Berkeley, Calif. (**1,** 1911; **2,** 1908)

Bradley, Stanley E., M.D. College of Physicians and Surgeons, 620 West 168th Street, New York 32, N. Y. *Assistant Professor.* (**1,** 1947)

Bradley, William B., Ph.D. American Institute of Baking, 1046 Elmwood Ave., Wilmette, Ill. *Director of Laboratories.* (**1,** 1939)

Branch, Charles F., M.D. The American College of Surgeons, 40 E. Erie St., Chicago 11, Ill. *Assistant Director.* (**4,** 1940)

Branch, E. Arnold G., M.D. Lancaster Hospital, St. John, N.B., Canada. *Director of Laboratories.* (**4,** 1929)

Brand, Erwin, Ph.D. 630 W. 168th St., New York City. *Associate Professor of Biological Chemistry, Columbia University.* (**2,** 1929)

Brandes, W. W., M.D. Roosevelt Hospital, W. 59th St., New York City. (**4,** 1931)

Branham, Sara E., Ph.D., M.D., Sc.D. National Institute of Health, Bethesda, Md. *Senior Bacteriologist.* (**6,** 1926)

Branion, Hugh Douglas, M.A., Ph.D. Ontario Agricultural College, Guelph, Canada. *Professor and Head of Dept. of Animal Nutrition.* (**5,** 1933)

Brassfield, Charles R., Ph.D. University of Michigan, Ann Arbor. *Associate Professor of Physiology.* (**1,** 1937)

Bratton, Andrew Calvin, Jr., M.D., Ph.D. Research Laboratories, Parke, Davis and Co.,

Detroit 32, Mich. *Director of Pharmacological Research.* (**3,** 1941)

Brauer, Ralph W., Ph.D. Louisiana State Univ. School of Medicine, New Orleans, La. *Asst. Professor of Pharmacology.* (**3,** 1948)

Braun, Herbert A., Ph.D. Food & Drug Administration, Federal Security Agency, Washington, D. C. *Associate Pharmacologist.* (**3,** 1941)

Brazier, Mary A. B., Ph.D. Electroencephalographic Laboratory, Massachusetts General Hospital, Boston 14. *Research Associate in Neuropathology,* Harvard Medical School. (**1,** 1947)

Breedis, Charles, M.D. Univ. of Pennsylvania School of Medicine, Philadelphia, Pa. *Instructor in Pathology.* (**4,** 1948)

Brewer, Carl R., Ph.D. Camp Detrick, Frederick, Md. *Chief, Bacterial Nutrition Branch Biological Div., Chemical Corps.* (**2,** 1948)

Brewer, George, M.D. 1665 Lamont St., N.W., Washington, D. C. (**1,** 1937)

Brewer, John H., Ph.D. Hynson Westcott and Dunning, Baltimore, Md. *Director of Biological Research.* (**6,** 1948)

Brewer, Nathan R., Ph.D. Univ. of Chicago, Chicago, Ill. *Lecturer in Physiology.* (**1,** 1948)

Bridge, Edward M., M.D. University of Buffalo Medical School, Buffalo, N. Y. *Research Professor, Department of Pediatrics.* (**2,** 1940)

Briggs, A. P., M.D. University of Georgia Med. College, Augusta. *Professor of Biochemistry.* (**2,** 1923)

Briggs, David, R., M.S., Ph.D. Division of Agricultural Biochemistry, University Farm, University of Minnesota, St. Paul 8; Minn. *Professor of Agricultural Biochemistry; Chemist, Minn. Agriculture Experiment Station.* (**2,** 1946)

Briggs, George M., M.S., Ph.D. University of Minnesota, University Farm, St. Paul, Minn. *Asst. Professor, Poultry Nutrition.* (**5,** 1947)

Brink, Frank, Jr., Ph.D. Johnson Research Foundation, University of Pennsylvania, Philadelphia. *Fellow in Medical Physics, Johnson Research Foundation; Lecturer in Biophysics, Graduate School, University of Pennsylvania.* (**1,** 1942)

Brinkhous, K. M., M.D. Dept. of Pathology, University of North Carolina School of Medicine, Chapel Hill, N. C. *Professor of Pathology.* (**4,** 1939)

Britton, Sydney W., M.D. University of Virginia School of Medicine, Charlottesville, Va. *Professor of Physiology.* (**1,** 1925)

Brobeck, John R., M.D., Ph.D. Yale University School of Medicine, New Haven, Conn. *Assistant Professor of Physiology.* (**1,** 1943)

Brodie, Bernard B., Ph.D. New York University Research Service, Goldwater Memorial Hospital, New York City. *Research Associate in Biochemistry, Assistant Professor of Pharmacology, New York University Medical College.* (**2,** 1940; **3,** 1945)

Brody, Samuel, M.A., Ph.D. Dairy Building, University of Missouri, Columbia. *Professor of Dairy Husbandry, College of Agriculture and Agricultural Experimentation.* (**2,** 1929; **5,** 1933)

Broh-Kahn, Robert H., M.D. May Institute for Med. Res., Cincinnati, Ohio. *Asst. Director.* (**1,** 1948)

Bronfenbrenner, J. J., Ph.D., D.P.H. Washington University School of Medicine, St. Louis, Mo. *Professor of Bacteriology and Immunology.* (**4,** 1940; **6,** 1918)

Bronk, Detlev W., Ph.D., Sc.D. Johns Hopkins University, Baltimore, Md. *President. Director, Eldridge Reeves Johnson Found. for Med. Physics. Member, Natl. Acad. of Sci. Chairman, Natl. Research Council.* (**1,** 1927)

Brookes, Margaret C. Hessler, A.M., Ph.D. University of Chicago, Chicago, Ill. *Assistant Professor, Department of Home Economics.* (**5,** 1935)

Brookhart, John M., B.A., M.S., Ph.D. 1940 W. Eddy St., Chicago 13, Illinois. *Assistant Professor, Physiology, Loyola Univ.* (**1,** 1946)

Brooks, Chandler McCuskey, M.A., Ph.D. The Long Island College of Medicine, Dept. of Physiology and Pharmacology, Brooklyn, N. Y. (**1,** 1934)

Brooks, Clyde, Ph.D., M.D., LL.D. University Clinic, 2506 Ponce de Leon Blvd., Coral Gables, Fla. (**1,** 1910; **3,** 1912)

Brooks, Matilda Moldenhauer, M.S., Ph.D. Department of Zoology, University of California, Berkeley. *Research Associate in Biology.* (**1,** 1923)

Brooks, Sumner Cushing, Ph.D. University of California, Berkeley. *Professor of Zoology.* (**1,** 1923)

Broun, Goronwy Owen, M.D. 1325 S. Grand Blvd., St. Louis, Mo. *Professor of Internal Medicine, St. Louis University.* (**4,** 1927)

Brown, Claude P., M.D. 1930 Chestnut St., Philadelphia, Pa. (**6,** 1913)

Brown, Dugald E. S., M.A., Ph.D. Bermuda Biological Station, St. George's W. Bermuda (**1,** 1932)

Brown, Ethan Allan, L.R.C.P. (Eng.), A.R.C.S. (London), 75 Bay State Rd., Boston, Mass. *Lecturer in Medicine, Tufts College Medical School; Physician-in-chief, Allergy Clinic, Boston Dispensary.* (**6,** 1946)

Brown, Frank A., Jr., M.A., Ph.D. Zoological Laboratories, Northwestern University, Evanston, Ill. *Associate Professor of Zoology.* (**1,** 1940)

Brown, George B., M.S., Ph.D. Sloan-Kettering Inst. for Cancer Res., New York City. *Member;* Cornell Univ. Med. Coll., *Asst. Prof. of Biochemistry.* (**2,** 1947)

Brown, John B., M.S., Ph.D. Ohio State University, Columbus. *Professor of Physiological Chemistry.* (2, 1927; 5, 1934)

Brown, R. A., M.S., Ph.D., The Research Laboratories, Parke Davis and Co., Detroit 32, Mich. *Head, Division of Nutritional Research.* (5, 1946)

Brown, Rachel, M.S., Ph.D. 26 Buckingham Drive, Albany, N. Y. *Senior Biochemist, Division of Laboratories and Research, New York State Department of Health.* (6, 1933)

Brown, Robert V., Ph.D. Department of Pharmacology, University of Tennessee, Memphis 3. *Associate Professor.* (1, 1945)

Browne, J. S. L., M.D., Ph.D., F.R.S.C. University Clinic, Royal Victoria Hospital, Montreal, Canada. *Assistant Professor of Medicine, McGill University.* (1, 1934)

Brownell, Katharine A., M.A., Ph.D. Department of Physiology, Ohio State University, Columbus. *Research Associate.* (1, 1943)

Brozek, Josef, Ph.D. Stadium South Tower, University of Minnesota, Minneapolis 14. *Assistant Professor*, Laboratory of Physiological Hygiene, University of Minnesota School of Public Health. (1, 1947)

Brues, Austin M., M.D. P. O. Box 5207, Chicago 80, Ill. (1, 1940)

Bruger, Maurice, M.D., C.M., M.Sc. 45 Gramercy Park N., New York, N. Y. *Associate Clinical Professor of Medicine, New York Post-Graduate Medical School of Columbia University; Chief, Division of Pathological Chemistry, New York Post-Graduate Hospital.* (2, 1935; 5, 1935)

Bruhn, John M., Ph.D. Department of Physiology, Medical College of Alabama, 620 South 20th St., Birmingham 5. *Professor of Physiology and Pharmacology.* (1, 1939)

Bruner, Harry Davis, M.S., M.D., Ph.D. University of North Carolina, Chapel Hill, N. C. *Professor of Pharmacology.* (3, 1945)

Brunschwig, Alexander, M.D. Cornell University Medical College, New York City. *Professor of Clinical Surgery; Attending Surgeon, Memorial Hospital.* (4, 1937)

Bryan, W. Ray, Ph.D. Glen Rd., Rockville, Md. *Principal Biologist, National Cancer Institute.* (1, 1934; 4, 1940)

Buchanan, J. William, Ph.D. Northwestern University, Evanston, Ill. *Professor of Zoology.* (1, 1927)

Buchbinder, Leon, Ph.D. Department of Health, 125 Worth St., New York City. (6, 1934)

Buchbinder, William C., M.S., M.D. 104 S. Michigan Ave., Chicago, Ill. *Assistant Professor of Medicine, Northwestern University Medical School; Associate in Medicine, Michael Reese Hospital.* (1, 1940)

Bucher, Gladys R., M.S., Ph.D., Department of Biology, University of Illinois, Chicago Division, Navy Pier, Chicago 12. (1, 1946)

Buckner, G. Davis, Ph.D. Kentucky Agricultural Experiment Station, Lexington. *In Charge of Animal Nutrition.* (2, 1920)

Bucy, Paul C., M.S., M.D. 4833 S. Woodlawn Ave., Chicago, Ill. *Professor of Neurology and Neurological Surgery, University of Illinois.* (1, 1933)

Buddingh, G. John, M.D. Louisiana State University School of Medicine, New Orleans. *Professor of Microbiology.* (4, 1940)

Bueding, Ernest, M.D. Dept. of Pharmacology, Western Reserve Univ. School of Medicine, Cleveland, Ohio. *Associate Professor.* (2, 1946)

Buell, Mary V., Ph.D. University of Wis. Enzyme Inst., Madison, Wis. *Res. Assoc.* (2, 1921)

Bukantz, Samuel C., M.D. Washington University School of Medicine, St. Louis 10, Mo. *Research Assistant in Medicine.* (6, 1943)

Bulatao, Emilio, M.D. University of the Philippines, Manila, P.I. *Professor of Physiology and Biochemistry.* (1, 1924)

Bull, Henry B., Ph.D. Northwestern University Medical School, 303 E. Chicago Ave., Chicago, Ill. *Professor of Chemistry.* (2, 1937)

Bullock, Theodore H., Ph.D. Univ. of California, Los Angeles, Calif. *Assoc. Professor of Zoology.* (1, 1948)

Bunde, Carl A., M.A., Ph.D. Southwestern Medical Foundation, Dallas, Texas. *Associate Professor of Physiology and Pharmacology.* (1, 1943)

Bunney, William Edward, Ph.D. E. R. Squibb and Sons, New Brunswick, N. J. *Vice-President —Director of Manufacturing Labs.* (6, 1931)

Bunting, Charles H., M.D. 139 Armory St., Hamden, Conn. *Emeritus Professor of Pathology, University of Wisconsin; Lecturer in Pathology, Yale Medical School.* (4, 1913)

Bunzell, H. H., Ph.D. Box 44, General Post Office, New York 1, N. Y. *Director, Bunzell Laboratories.* (2, 1908)

Burchell, Howard B., M.D., Ph.D. 1506 Durand Court, Rochester, Minn. *Instructor in Medicine, Mayo Foundation, Graduate School, University of Minnesota; Consultant in Medicine, Mayo Clinic, Rochester, Minn.* (1, 1942)

Burdick, H. O., M.A., Sc.D. (hon.). Alfred University, Alfred, N. Y. *Professor of Biology.* (1, 1940)

Burdon, Kenneth L., Sc.M., Ph.D. Baylor University College of Medicine, Houston, Texas. *Professor of Bacteriology; Consultant, United States Public Health Service.* (6, 1936)

Burk, Dean, Ph.D. National Cancer Institute, U. S. Public Health Service, Bethesda, Md. *Principal Chemist.* (2, 1939)

Burns, Edward L., M.D. Mercy Hospital, Toledo, Ohio. *Pathologist.* (**4,** 1939)

Burr, George O., M.A., Ph.D., LL.D. Experiment Station, H.S.P.A., Honolulu, Hawaii, *Head, Dept. of Biochemistry & Physiology.* (**2,** 1928; **5,** 1933)

Burris, Robert H., M.S., Ph.D. Dept. of Biochemistry, University of Wisconsin, Madison 6, Wis. *Associate Professor of Biochemistry.* (**2,** 1946)

Burrows, William, M.S., Ph.D. Department of Bacteriology and Parasitology, University of Chicago, Chicago 37, Ill. *Professor of Bacteriology.* (**6,** 1947)

Burton, Alan C., Ph.D. Department of Medical Research, University of Western Ontario, London, Canada. *Assistant Professor of Medical Research.* (**1,** 1937)

Burton-Opitz, Russell, M.S., M.D., Ph.D. 218 Bridle Way, Palisade, N. J. *Attending Cardiologist, Lenox Hill Hospital; Attending Physician, Cumberland Hospital; Consulting Cardiologist, Engelwood, North Hudson, Holy Name and Hackensack Hospitals.* (**1R,** 1902; **2,** 1906; **3R,** 1919)

Buschke, William H., M.D. Manhattan Eye, Ear and Throat Hospital, 210 East 64th St., New York 21, N. Y. *Research Ophthalmologist; Head, Ayer Foundation Ophthalmic Research Laboratory.* (**1,** 1947)

Bush, Milton T., Ph.D. Vanderbilt University School of Medicine, Nashville, Tenn. *Associate Professor of Pharmacology.* (**3,** 1938)

Butler, Thomas C., M.D. Johns Hopkins School of Medicine, Dept. of Pharmacology and Experimental Therapeutics, 710 N. Washington St., Baltimore 5, Md. *Associate Professor of Pharmacology and Experimental Therapeutics.* (**3,** 1938)

Butt, Hugh R., M.D. Mayo Clinic, 102 Second Ave., S.W., Rochester, Minn. *Consultant in Medicine, Assistant Professor of Medicine, Mayo Foundation.* (**5,** 1942)

Butts, Joseph S., M.S., Ph.D. Oregon State College, Corvallis, Oregon. *Professor of Biochemistry and Head of Agricultural Chemistry.* (**2,** 1936; **5,** 1936)

Cahill, William M., Ph.D. 3320 Baldwin St., Los Angeles 31, Calif. (**2,** 1940)

Cajori, Florian A., Ph.D. Dept. of Biochemistry, Univ. of Colorado Medical School, Denver 7, Colo. *Assistant Professor of Biochemistry.* (**2,** 1922; **5,** 1933)

Caldwell, Mary L., A.M., Ph.D. Department of Chemistry, Columbia University, New York City. *Professor of Chemistry.* (**2,** 1924; **5,** 1933)

Calloway, Nathaniel Oglesby, Ph.D., M.D. Medical School, University of Illinois, 1819 Polk St., Chicago 12. *Assistant in Medicine.* (**3,** 1945)

Calvin, D. Bailey, M.A., Ph.D. University of Texas, Medical Branch, Galveston. *Professor, Biological Chemistry and Dean, Student and Curricular Affairs.* (**1,** 1934; **2,** 1939)

Cameron, A. T., M.A., D.Sc., F.I.C., F.R.S.C. Medical College, Winnipeg, Manitoba, Canada. *Professor of Biochemistry, Faculty of Medicine, University of Manitoba; Biochemist, Winnipeg General Hospital.* (**2,** 1914)

Caminopetros, John, M.D. Hellenic Pasteur Institute, 103 Queen Sophie Ave., Athens, Greece. *Chief of the Service of Experimental Medicine.* (**6,** 1946)

Camp, Walter J. R., M.D., Ph.D. 1853 Polk St., Chicago, Ill. *Professor of Pharmacology and Therapeutics, University of Illinois.* (**3,** 1926)

Campbell, Berry, Ph.D. University of Minnesota, Minneapolis 14. *Associate Professor of Anatomy.* (**1,** 1945)

Campbell, Dan H., M.S., Ph.D. Department of Chemistry, California Institute of Technology, Pasadena, Calif. *Assoc. Professor of Chemistry.* (**6,** 1938)

Campbell, James, M.A., Ph.D. University of Toronto, Toronto, Ontario, Canada. *Assistant Professor of Physiology. Lieutenant Commander, (S.B.) R.C.N.V.R.* (**1,** 1943)

Campbell, Walter Ruggles, M.D., F.R.C.P. (C), F.R.S.C. University of Toronto, Toronto, Canada. *Assoc. Prof. of Medicine.* (**2,** 1922)

Cannan, R. Keith, D.Sc. 477 First Ave., New York City. *Professor of Chemistry, New York University College of Medicine.* (**2,** 1931)

Cannon, Paul R., M.D., Ph.D. University of Chicago, Chicago, Ill. *Professor of Pathology.* (**4,** 1930; **6,** 1929)

Cantarow, Abraham, M.D. Jefferson Medical College, Philadelphia 7, Pa. *Professor of Physiological Chemistry.* (**1,** 1932; **3,** 1935)

Cantoni, G. L., M.D. University of Illinois College of Medicine, Chicago, Ill. *Dept. of Biological Chemistry.* (**3,** 1945)

Canzanelli, Attilio, M.D. Tufts College Medical School, 416 Huntington Ave., Boston, Mass. *Professor of Experimental Physiology.* (**1,** 1934)

Carlson, A. J., A.M., Ph.D., M.D., LL.D. Hull Physiological Laboratory, University of Chicago, Chicago, Ill. *Professor of Physiology Emeritus; Member of the National Academy of Sciences.* (**1,** 1904; **5,** 1933)

Carlson, Loren D., Ph.D. Dept. of Physiology and Biophysics, School of Medicine, Univ. of Washington, Seattle 5. (**1,** 1945)

Carmichael, Emmett B., Ph.D. Department of Biochemistry, The Medical College of Alabama, Birmingham 5. *Professor and Head of Dept. of Biochemistry.* (**1,** 1931; **2,** 1946)

Carmichael, Leonard, Ph.D., Sc.D., Litt.D., LL.D. Tufts College, Medford, Mass. *Director, the Tufts College Research Laboratory of Sensory Psychology and Physiology and President of the College.* (**1,** 1937)

Carpenter, Thorne M., Ph.D. Sc.D. (hon.) 27 Market St., Foxboro, Mass. (**1R,** 1915; **2,** 1909; **5,** 1935)

Carr, C. Jelleff, Ph.D. School of Medicine, University of Maryland, Baltimore. *Associate Professor of Pharmacology.* (**3,** 1940)

Carr, Jesse L., M.D. University of California Medical School, Third and Parnassus Aves., San Francisco. *Assistant Professor of Pathology.* (**4,** 1940)

Carruthers, Christopher, Ph.D. Barnard Free Skin and Cancer Hospital, St. Louis, Mo. *Research Associate.* (**2,** 1948)

Carter, Herbert E., M.A., Ph.D. 452 Noyes Laboratory, Urbana, Ill. *Professor of Biochemistry, University of Illinois.* (**2,** 1937; **5,** 1941)

Cartland, George F., M.S., Ph.D. The Upjohn Co., Research Dept., Kalamazoo, Mich. *Head, Antibiotics Research.* (**2,** 1936)

Cary, Charles A., S.B. Dairy Research Laboratory, Beltsville, Md. *Chief, Division of Nutrition and Physiology, Bureau of Dairy Industry, U. S. Department of Agriculture.* (**2,** 1920)

Casey, Albert Eugene, M.D. 1907 Wellington Rd., Birmingham 9, Ala. *Pathologist, Baptist Hospital.* (**4,** 1933)

Cash, James Robert, M.D. University Hospital, Charlottesville, Va. *Professor of Pathology, University of Virginia.* (**4,** 1924)

Castle, Edward S., M.A., Ph.D. Biological Laboratories, Harvard University, Divinity Ave., Cambridge, Mass. *Associate Professor of General Physiology.* (**1,** 1934)

Castle, William B., M.D., S.M. (Hon. Yale), M.D. (Hon. Utrecht). Boston City Hospital, Boston, Mass. *Professor of Medicine, Harvard Medical School; Director, Thorndike Memorial Laboratory and Director, II and IV Medical Services (Harvard), Boston City Hospital.* (**4,** 1942)

Catchpole, Hubert Ralph, Ph.D. 1853 W. Polk St., Chicago 12, Ill. *Research Associate in Pathology, University of Chicago College of Medicine.* (**1,** 1941)

Cathcart, E. P., M.D., D.Sc., LL.D. University of Glasgow, Glasgow, Scotland. *Dean of University.* (**5,** 1935)

Catron, Lloyd, M.D. The City Hospital, Akron, O. *Pathologist.* (**4,** 1939)

Cattell, McKeen, A.M., Ph.D., M.D. Cornell University Medical College, 1300 York Ave., New York City. *Professor of Pharmacology.* (**1,** 1923; **3,** 1924)

Cavelti, Philip A., M.D. 1631 31st Ave., San Francisco, Calif. (**6,** 1947)

Cerecedo, Leopold R., Ph.D. Fordham University, New York City. *Professor of Biochemistry.* (**2,** 1931; **5,** 1945)

Chadwick, Leigh Edward, Ph.D. Medical Division, Army Chemical Center, Md. (**1,** 1944)

Chaikoff, I. L., A.M., Ph.D., M.D. University of California, Berkeley. *Associate Professor of Physiology.* (**1,** 1932)

Chalkley, Harold W., A.M., Ph.D. U. S. Public Health Service, National Institute of Health, Bethesda, Md. *Senior Physiologist.* (**1,** 1932)

Chamberlain, Edward, M.D. Temple Univ. Med. Sch., Philadelphia, Pa. *Professor of Radiology.* (**1,** 1948)

Chambers, Alfred H., Ph.D. University of Vermont School of Medicine, Burlington, Vt. Dept. of Physiology. (**1,** 1946)

Chambers, Leslie Addison, M.S., Ph.D. Camp Detrick, Frederick, Md. *Chief, Physical and Chemical Division.* (**1,** 1940; **6,** 1948)

Chambers, Robert, A.M., Ph.D. Marine Biological Laboratory, Woods Hole, Mass. *Director of Laboratory of Cellular Physiology; Research Professor Emeritus, New York University.* (**1,** 1932)

Chambers, William H., M.S., Ph.D. Medical Division, Army Chemical Center, Md. *Chief, Toxicology Branch.* (**1,** 1924; **5,** 1933)

Chandler, Caroline A., M.D. 615 N. Wolfe St., Baltimore 5, Md. *Assistant Professor of Preventive Medicine.* (**6,** 1938)

Chandler, Joseph P., M.S., Ph.D. University of Michigan Med. Sch., Ann Arbor, Mich. *Asst. Prof. of Biological Chemistry.* (**2,** 1944; **5,** 1944)

Chang, Min Cheuh, B.Sc., Ph.D. Worcester Foundation, Shrewsbury, Mass. *Associate Fellow* (**1,** 1946)

Chanutin, Alfred, Ph.D. Box 1862 (University Station), Charlottesville, Va. *Professor of Biochemistry, University of Virginia.* (**2,** 1925)

Chapanis, Alphonse, Ph.D. Johns Hopkins Univ., Baltimore, Md. *Asst. Professor of Psychology.* (**1,** 1948)

Chapman, C. W., M.Sc., Ph.D. University of Maryland, Baltimore. *Professor of Pharmacology.* (**3,** 1932)

Chargaff, Erwin, Ph.D. Columbia University, College of Physicians and Surgeons, 630 W. 168th St., New York City. *Associate Professor of Biological Chemistry.* (**2,** 1935)

Charipper, Harry Adolph, M.S., Ph.D. Washington Square College of Arts and Sciences, 100 Washington Square East, New York City. *Professor of Biology and Chairman of the Department.* (**1,** 1941)

Chase, Aurin M., A.M., Ph.D. Department of

Biology, Princeton University, Princeton, N. J. *Research Associate, Assistant Professor.* (**1,** 1939)

Chase, Harold F., B.S., M.D. Hartford Hospital, Hartford 15, Conn. (**3,** 1944)

Chase, Merrill W., M.S., Ph.D. Rockefeller Institute, 66th St. and York Ave., New York City. *Member of Staff.* (**6,** 1938)

Chasis, Herbert, M.D., Med. Sc.D. 44 E. 67th St., New York City. *Assistant Professor of Medicine, New York University, College of Medicine.* (**1,** 1941)

Chatfield, Charlotte, B.S. Food and Agriculture Organization of the United Nations, Washington, D. C. *Nutrition officer.* (**5,** 1941)

Chatterjee, Hernendra Nath., M.D. Calcutta Univ., Calcutta, India. *Teacher; Fellow, Royal Society of Tropical Medicine (Eng.).* (**6,** 1948)

Cheldelin, Vernon H., M.S., Ph.D. Department of Chemistry, Oregon State College, Corvallis, Ore. *Professor of Chemistry.* (**2,** 1947; **5,** 1946)

Chen, Graham, Sc.D., M.D. c/o Parke, Davis and Co., Detroit, Mich. (**3,** 1944)

Chen, K. K., Ph.D., M.D. The Lilly Research Laboratories, Indianapolis, Ind. *Director of Pharmacological Research, Lilly Research Laboratories; Professor of Pharmacology, Indiana University School of Medicine, Indianapolis.* (**1,** 1929; **3,** 1942)

Cheney, Ralph H. M.A., M.S., Sc.D. Biology Dept., Brooklyn College, Bedford Ave. and Ave. H, Brooklyn 10, N. Y. (**3,** 1934)

Chenoweth, Maynard Burton, M.D. Dept. of Pharmacology, University of Michigan Medical School, Ann Arbor, Mich. *Assoc. Professor of Pharmacology.* (**3,** 1945)

Chesney, Alan M., M.D. The Johns Hopkins Hospital, Baltimore, Md. *Dean, Johns Hopkins Medical School; Associate Professor of Medicine.* (**4,** 1925)

Chow, Bacon F., Ph.D. Squibb Institute for Medical Research, New Brunswick, N. J. *Head, Nutritional Development Dept.* (**2,** 1940; **5,** 1948; **6,** 1944)

Christensen, Halvor N., M.S., Ph.D. Tufts College Med. Sch., Boston, Mass. *Prof. and Head, Dept. of Biochemistry.* (**2,** 1947)

Christensen, L. Royal, Ph.D. New York University College of Medicine, 477 First Ave., New York City. *Asst. Professor, Dept. of Microbiology.* (**6,** 1942)

Christian, Henry A., M.D. 20 Chapel St., Brookline, Mass. *Hersey Professor of the Theory and Practice of Physics, Emeritus, Harvard University; Physician-in-Chief, Emeritus, Peter Bent Brigham Hospital, Boston; Visiting Physician, Beth Israel Hospital, Boston.* (**4,** 1924)

Christman, Adam A., Ph.D. University of Michigan Medical School, Ann Arbor. *Professor of Biological Chemistry.* (**2,** 1929)

Chu, Wei-chang, M.D. 546 West 124th St., Apt. 53, New York City. (**3,** 1945)

Clark, Ada R., M.A., Ph.D. College of Physicians and Surgeons, 630 W. 168th St., New York City. *Associate, Bacteriology, Teaching and Research.* (**6,** 1936)

Clark, Byron B., M.S., Ph.D. Tufts College Medical School, 416 Huntington Ave., Boston 15, Mass. *Professor of Pharmacology.* (**3,** 1940)

Clark, Ernest D., A.M., Ph.D. 826 Skinner Bldg., Seattle 1, Wash. *Director of the Laboratories, Northwest Branch, National Canners' Association.* (**2,** 1912)

Clark, George, Ph.D. Department of Anatomy, Chicago Medical School, 710 S. Wolcott Ave., Chicago 12, Ill. *Associate Professor of Neuroanatomy.* (**1,** 1943)

Clark, Guy W., A.M., Ph.D. c/o Lederle Laboratories, Inc., Pearl River, N. Y. *Technical Director.* (**2,** 1922)

Clark, Janet Howell, A.M., Ph.D. Anderson Hall, University of Rochester, Rochester, N. Y. *Dean of the College for Women and Professor in the Division of Biological Sciences.* (**1,** 1922)

Clark, Paul F., Ph.D. University of Wisconsin Medical School, Madison. *Professor of Medical Microbiology.* (**4,** 1923; **6,** 1928)

Clark, William G., Ph.D. Scripps Metabolic Clinic, La Jolla, Calif. (**1,** 1942)

Clark, William Mansfield, M.A., Ph.D., D.Sc. Johns Hopkins University, Baltimore, Md. *Professor of Physiological Chemistry; Member, National Academy of Sciences.* (**2,** 1920)

Clarke, Hans Thacher, D.Sc. (London), F.I.C. 630 W. 168th St., New York City. *Professor of Biological Chemistry, Columbia University, College of Physicians and Surgeons.* (**2,** 1929)

Clarke, Robert W. 6 Audubon Court, Elizabethtown, Kentucky. *Physiologist, Armored Med. Research Lab., Fort Knox.* (**1,** 1936)

Clausen, Samuel Wolcott, M.D. School of Medicine, University of Rochester, Rochester, N. Y. *Professor of Pediatrics.* (**2,** 1922)

Cleghorn, Robert Allen, M.D., D.Sc. (Aberdeen). Department of Psychiatry, McGill University, Montreal, Quebec, Canada. (**1,** 1937)

Clowes, George Henry Alexander, Ph.D., D.Sc. (hon.), LL.D. (hon.). Eli Lilly & Co., Indianapolis, Ind. *Director of Research.* (**2,** 1914; **6,** 1919)

Coburn, Alvin F., M.D. Rheumatic Fever Research Institute, Chicago, Ill. *Director.* (**6,** 1948)

Code, Charles F., Ph.D., M.D. Mayo Foundation, Rochester, Minn. *Professor of Physiology.* (**1,** 1939)

Coffey, Julia M., A.B. Division of Laboratories & Research, New York State Department of Health, Albany, N. Y. *Associate Bacteriologist.* (6, 1937)

Coghill, Robert D., M.S., Ph.D. Abbott Laboratories, North Chicago, Illinois. *Director of Research.* (2, 1932)

Cohen, Barnett, M.S., Ph.D. Johns Hopkins University School of Medicine, 710 N. Washington St., Baltimore 5, Md. *Associate Professor of Physiological Chemistry.* (2, 1935)

Cohen, Milton B., M.D. 10616 Euclid Ave., Cleveland, O. *Director, The Asthma, Hay Fever and Allergy Foundation.* (6, 1931)

Cohen, Philip P., Ph.D., M.D. Service Memorial Institute, University of Wisconsin, Madison. *Professor of Physiological Chemistry.* (2, 1941)

Cohen, Saul L., Ph.D. Univ. of Minnesota, Minneapolis, Minn. *Asst. Professor of Physiological Chemistry.* (2, 1948)

Cohen, Seymour S., Ph.D. Children's Hospital, 1840 Bainbridge St., Philadelphia, Pa. *Assistant Professor of Physiological Chemistry, University of Pennsylvania School of Medicine.* (2, 1946)

Cohen, Sophia M., B.S. Division of Laboratories and Research, New York State Department of Health, Albany, N. Y. *Senior Bacteriologist.* (6, 1938)

Cohn, Alfred E., M.D. 300 Central Park W., New York City. *Member, Rockefeller Institute for Medical Research.* (1R, 1911; 3, 1913)

Cohn, Clarence, M.D. Michael Reese Hosp., Med. Res. Inst., Chicago, Ill. *Director, Dept. of Biochemistry.* (1, 1948)

Cohn, Edwin J., Ph.D., A.M. (Hon.), Sc.D. (Hon.). 183 Brattle St., Cambridge, Mass. *Professor of Biological Chemistry, Harvard Medical School, Boston; Member, National Academy of Sciences.* (1, 1919; 2, 1919)

Cohn, Waldo E., Ph.D. Oak Ridge National Lab., Oak Ridge, Tenn. *Principal Biochemist.* (2, 1944)

Cole, Harold H., M.S., Ph.D. Division of Animal Husbandry, College of Agriculture, University of California, Davis. *Professor.* (1, 1947)

Cole, Harold N., Ph.B., M.D. 1352 Hanna Bldg., Cleveland, O. *Clinical Professor of Dermatology and Syphilology, Western Reserve University.* (3, 1925)

Cole, Kenneth S., Ph.D. Institute of Radiobiology and Biophysics, University of Chicago, Chicago 37, Ill. *Professor of Biophysics.* (1, 1934)

Cole, Rufus, M.D., D.Sc. Mount Kisco, N. Y. *Member Emeritus, Rockefeller Institute for Medical Research.* (6, 1917)

Cole, Versa V., Ph.D., M.D. Indiana University School of Medicine, 1040–1232 West Michigan St., Indianapolis. *Associate Professor of Pharmacology.* (3, 1941)

Collett, Mary Elizabeth, A.M., Ph.D. Mather College, Western Reserve University, Cleveland, O. *Associate Professor of Biology.* (1, 1921)

Collier, H. Bruce, M.A., Ph.D. Dept. of Biochemistry, Univ. of Saskatchewan, Saskatoon, Sask. *Professor of Biochemistry.* (2, 1944)

Collings, William Doyne, Ph.D. Medical Laboratories, State University of Iowa, Iowa City. (1, 1944)

Collins, Dean A., M.A., Ph.D., M.D. Temple Univ. School of Medicine, 3400 N. Broad St., Philadelphia 40, Pa. *Associate Professor of Physiology.* (1, 1938)

Collins, Russell J., A.M., M.D., F.R.C.P. (Can.) M.R.C.P. (Edin.) F.A.C.P. St. John, New Brunswick, Canada. *Medical Superintendent of St. John Tuberculosis Hospital.* (3, 1915)

Collip, J. B., Ph.D., D.Sc., M.D., C.B.E. F.R.S.C., F.R.S. University of Western Ontario, London, Ontario, Canada. *Dean, Medical Research.* (1, 1920; 2, 1920)

Colowick Sidney P., Ph.D. Dept. of Biological Chemistry, Univ. of Illinois College of Medicine, Chicago. *Associate Professor.* (2, 1944).

Coman, Dale R., M.D. McManes Laboratory of Pathology, University of Pennsylvania School of Medicine, Philadelphia. *Associate Professor of Pathology.* (4, 1939)

Comroe, Julius H., Jr., M.D. University of Pennsylvania Graduate School of Medicine, Philadelphia. *Professor of Physiology and Pharmacology.* (1, 1943; 3, 1939)

Conant, James B., Ph.D. 5 University Hall, Cambridge, Mass. *President, Harvard University; Member, National Academy of Sciences.* (2, 1932)

Concepcion, Isabelo, M.D. 589 Zamora, Pasay, Rizal, Philippines. Faculty of Medicine, University Santo Tomas, Manila, Philippines. *Professor of Biochemistry and Nutrition.* (1, 1919)

Conklin, Ruth E., M.S., Ph.D. Vassar College, Poughkeepsie, N. Y. *Professor of Physiology.* (1, 1940)

Conn, Jerome W., M.D. University of Michigan Medical School, Ann Arbor, Mich. *Associate Professor of Internal Medicine.* (5, 1942)

Cook, Donald Hunter, Ph.D. University of Miami, Coral Gables 34, Fla. *Professor of Chemistry.* (2, 1929)

Cooke, Robert A., A.M., Sc.D. (hon.), M.D. 60 E. 58th St., New York City. *Director, Department of Allergy, Roosevelt Hospital.* (6, 1920)

Coolidge, Thomas B., M.D., Ph.D. Abbot Hall, University of Chicago, Chicago 37, Ill. *Asso-*

ciate Professor, Dept. of Biochemistry; and Walter G. Zoller Memorial Dental Clinic. (**2,** 1942)

Coon, Julius M., Ph.D. Dept. of Pharmacology, Univ. of Chicago, Chicago 37, Ill. *Assoc. Professor of Pharmacology; Director, Toxicity Lab.* (**3,** 1941)

Coons, Callie Mae, Ph.D. Bureau of Human Nutrition and Home Economics, U. S. Dept. of Agriculture, Washington, D. C. *Assistant Chief.* (**5,** 1933)

Cope, Otis M., M.D. University of Florida, School of Pharmacy, Gainesville, Fla. (**1,** 1929)

Copley, Alfred Lewin, M.D. Laboratory of Cellular Physiology, Dept. of Biology, New York Univ., Washington Square, New York 3, N. Y. *Research Associate.* (**1,** 1944)

Corbin, Kendall B., M.D. 919 80th St., S.W., Rochester, Minn. *Consultant in Neurology, Mayo Clinic; Professor of Neuroanatomy, Mayo Foundation.* (**1,** 1941)

Corcoran, Arthur Curtis, C.M., M.D. Cleveland Clinic Foundation, Cleveland 6, O. (**1,** 1940)

Corey, Edward Lyman, Ph.D. School of Medicine, University of Virginia, University, Va. *Assistant Professor of Physiology.* (**1,** 1931)

Cori, Carl F., M.D. Washington University School of Medicine, Kingshighway and Euclid Ave., St. Louis, Mo. *Professor of Pharmacology and Biochemistry; Member, National Academy of Sciences.* (**2,** 1925; **3,** 1934)

Cori, Gerty T., M.D. Washington University School of Medicine, St. Louis, Mo. *Research Associate; Professor of Biochemistry.* (**2,** 1927; **3,** 1934)

Corley, Ralph Conner, Ph.D. Department of Chemistry, Purdue University, Lafayette, Ind. *Professor of Biochemistry.* (**2,** 1927)

Corper, Harry J., M.D., Ph.D. 1295 Clermont St., Denver, Colo. *Director of Research, National Jewish Hospital and Univ. of Colorado School of Medicine.* (**2,** 1912)

Corson, Samuel A., M.S., Ph.D. Department of Physiology, Howard University School of Medicine, Washington, D. C. (**1,** 1943)

Cotts, Gerhard K., M.D. Lynchburg State Colony, Colony, Virginia. *Clinical Director.* **3,** 1937)

Co Tui, Frank, M.D. New York University College of Medicine, 477 First Ave., New York City. *Associate Professor of Experimental Surgery.* (**3,** 1931)

Cournand, André Frederic, M.D. Chest Service, Bellevue Hospital, CD Building, 1st Ave. at 28th St., New York City. *Assistant Professor of Medicine, College of Physicians and Surgeons, Columbia University.* (**1,** 1944)

Cowgill, George Raymond, Ph.D., Sc.D. Yale University, New Haven, Conn. *Professor of Nutrition.* (**1,** 1923; **2,** 1922; **5,** 1933)

Cox, Gerald J., Ph.D. University of Pittsburgh School of Dentistry, Pittsburgh, Pa. *Prof. of Dental Res.* (**2,** 1930; **5,** 1935)

Cox, Herald R., Sc.D. Lederle Laboratories Division, Pearl River, N. Y. *Director, Viral and Rickettsial Research.* (**6,** 1946)

Cox, Warren M., Jr., Ph.D. Mead Johnson & Co., Evansville, Ind. *Director of Nutritional Research.* (**2,** 1935; **5,** 1945)

Craig, Francis Northrop, M.A., Ph.D. Medical Division, Army Chemical Center, Md. *Physiologist.* (**1,** 1946)

Craig, L. C., Ph.D. Rockefeller Institute for Medical Research, 66th St. and York Ave., New York City. *Associate Member.* (**2,** 1938)

Crampton, E. W., Ph.D. Macdonald College, McGill University, Quebec, Canada. *Professor of Nutrition.* (**5,** 1940)

Crandall, Lathan A., Jr., M.D., Ph.D. Miles Laboratories, Inc., Elkhart, Indiana. (**1,** 1930; **5,** 1940)

Cranston, Elizabeth M., B.A., M.S., Ph.D. Dept. of Pharmacology, Univ. of Minnesota Medical School, Minneapolis 14, Minn. *Instructor, Dept. of Pharmacology.* (**3,** 1946)

Cravens, W. W., M.S., Ph.D. Poultry Department, University of Wisconsin, Madison. *Associate Professor of Poultry Husbandry.* (**5,** 1947)

Craver, Bradford N., M.A., Ph.D., M.D. Ciba Pharmaceutical Products, Inc., Lafayette Park, Summit, New Jersey. *Senior Pharmacologist.* (**3,** 1946)

Crescitelli, Frederick, Ph.B., Sc.M., Ph.D. Dept. of Zoology, Univ. of Calif., Los Angeles, Calif. *Physiologist.* (**1,** 1946)

Cretcher, Leonard H., Ph.D. Mellon Institute of Industrial Research, University of Pittsburgh, Pittsburgh, Pa. *Assistant Director and Head of the Department of Research in Pure Chemistry.* (**2,** 1930)

Crider, Joseph O., M.D. Jefferson Medical College, Philadelphia, Pa. *Associate Professor of Physiology and Assistant Dean.* (**1,** 1935)

Crisler, George R., Ph.D., M.D. 157 E. New England Ave., Winter Park, Fla. (**1,** 1930)

Crismon, Jefferson Martineau, M.D. Stanford University, Calif. *Assistant Professor of Physiology.* (**1,** 1944)

Crittenden, Phoebe J., M.S., Ph.D. Department of Physiology and Hygiene, Goucher College, Towson 4, Md. (**1,** 1937; **3,** 1937)

Crozier, William J., Ph.D. Biological Laboratories, Harvard University, Cambridge, Mass. *Professor of General Physiology.* (**1,** 1928)

Csonka, F. A., Ph.D. Bureau of Human Nutrition and Home Economics, U. S. Department of Agriculture, Beltsville, Md. *Senior Chemist.* (**2,** 1924)

Cullen, Stuart C., M.D. University Hospitals, Iowa City, Iowa. *Assistant Professor of Surgery-Anesthesia.* (3, 1944)

Cunningham, Raymond W., M.S., Ph.D. Lederle Laboratories, Inc., Pearl River, N. Y. *Head, Pharmacology Research.* (3, 1941)

Cunningham, Robert Sydney, A.M., M.D., Sc.D. Albany Medical College, Albany, N. Y. *Professor of Anatomy and Dean.* (1, 1923)

Cureton, Thomas Kirk Jr., M.A., Ph.D., B.P.E., M.P.E. Univ. of Illinois, School of Physical Education, Urbana, Ill. *Associate Professor of Physical Education.* (1, 1946)

Curnen, Edward C., M.D. Yale Univ. School of Medicine, New Haven 11, Conn. (6, 1941)

Curtis, George Morris, M.A., Ph.D., M.D. Kinsman Hall, Ohio State University, Columbus. *Professor of Surgery; Chairman, Department of Research Surgery.* (1, 1933; 4, 1933)

Curtis, Howard J., M.A., Ph.D. Vanderbilt University School of Medicine, Nashville 4, Tenn. *Professor of Physiology.* (1, 1940)

Cutting, Reginald A., M.D., Ph.D. Georgetown University School of Medicine, 3900 Reservoir Road, N.W., Washington, D. C. *Professor of Physiology and Director of the Department.* (1, 1939)

Cutting, Windsor C., M.D. Stanford University School of Medicine, San Francisco, Calif. *Assistant Professor of Therapeutics.* (3, 1939)

Daft, Floyd Shelton, Ph.D. National Institutes of Health, Bethesda, Md. *Scientist Director; Chief, Nutrition Section; Assistant Chief, Division of Physiology.* (5, 1941)

Daggs, Ray Gilbert, Ph.D. Medical Dept., Field Research Lab., Fort Knox, Kentucky. *Director of Research.* (1, 1935; 5, 1933)

Dakin, Henry D., D.Sc., LL.D., Ph.D., F.I.C., F.R.S. Scarborough-on-Hudson, N. Y. (2, 1906)

Dalldorf, Gilbert, M.D. New York State Department of Health, Albany, N. Y. *Director,* Division of Laboratories and Research. (4, 1947)

Dalton, Albert J., M.A., Ph.D. National Cancer Institute, Bethesda, Md. *Principal Cytologist.* (4, 1942)

Dam, Henrik, D.Sc. Biologisk Afdeling Danmarks Tekniske Højskole, Østervoldgade 10 L, Copenhagen, K, Denmark. *Professor.* (2, 1944; 5, 1943)

D'Amour, Fred E., M.S., Ph.D. 2311 S. Josephine St., Denver, Colo. *Associate Professor, Department of Zoology, University of Denver.* (1, 1934)

D'Amour, Marie C., Ph.D., M.D. 2311 So. Josephine St., Denver, Colo. (1, 1934)

D'Angelo, Savino A., M.S., Ph.D. Department of Biology, New York University, Washington Square, New York 3, N. Y. *Assistant Professor of Biology.* (1, 1947)

Daniels, Amy L., Ph.D. 720 N. Van Buren St., Iowa City, Iowa. *Retired.* (2, 1919; 5, 1933)

Danielson, Irvin S., Ph.D. Pearl River Apartments, Apt. 3H, Pearl River, N. Y. *Research Chemist.* (2, 1937)

Dann, W. J., Ph.D., D.Sc. Duke University School of Medicine, Durham, N. C. *Professor of Nutrition.* (2, 1937; 5, 1938)

Danowski, T. S., M.D. University of Pittsburgh School of Medicine, Pittsburgh, Pa. *Renziehausen Professor of Research Medicine.* (1, 1947)

Darby, William J., M.D., Ph.D. Vanderbilt Univ. School of Medicine, Nashville, Tenn. *Associate Professor of Biochemistry, Assistant Professor of Medicine.* (5, 1945)

Darling, Robert Croly, M.D. 157 Glenwood Ave., Leonia, N. J. Dept. of Medicine, Columbia Univ. College of Physicians and Surgeons, New York, 32, N. Y. (1, 1944)

Darrow, Chester W., Ph.D. Institute for Juvenile Research, 907 S. Wolcott St., Chicago, Ill. *Research Psychologist, Institute for Juvenile Research; Associate in Physiology, University of Illinois College of Medicine.* (1, 1937)

Darrow, Daniel Cady, M.D. 789 Howard Ave., New Haven, Conn. *Prof. of Pediatrics,* Yale Univ. School of Medicine. (2, 1936)

Daubert, B. F., Ph.D. University of Pittsburgh, Pittsburgh, Penn. *Research Professor and Research Administrator.* (2, 1947)

Davenport, Horace Willard, B.S., B.Sc. (Oxon) Ph.D. Dept. of Physiology, University of Utah, Salt Lake City 1. (1, 1942)

David, Norman Austin, M.D. University of Oregon Medical School, Portland. *Professor of Pharmacology.* (3, 1934)

Davidsohn, Israel, M.D. Mount Sinai Hospital, Chicago, Ill. *Pathologist and Director of Laboratories; Chicago Medical School, Professor of Pathology and Chairman of Dept.* (4, 1939; 6, 1929)

Davies, Philip W., Ph.D. Univ. of Pennsylvania, Johnson Res. Found., Philadelphia, Pa. *Assoc. in Biophysics.* (1, 1948)

Davis, Bernard D., M.D. Cornell Univ. Med. College, New York City. *Research Associate;* USPHS, *Surgeon.* (6, 1948)

Davis, George Kelso, Ph.D. Nutrition Laboratory, Animal Industry Dept., Agricultural Experiment Station, Gainesville, Fla. *Nutritional Technologist and Biochemist, Professor of Nutrition, Univ. of Florida, Florida Agricultural Experiment Station.* (5, 1944)

Davis, Hallowell, M.D. Central Institute for the Deaf, 818 S. Kingshighway, St. Louis 10, Mo. (1, 1925)

Davis, Harry A., M.D., C.M. 2007 Wilshire Blvd., Los Angeles 5, Calif. (4, 1944)

Davis, John Emerson, M.S., Ph.D. Univ. of Arkansas School of Medicine, Little Rock. *Professor of Pharmacology and Physiology.* (**1,** 1941; **3,** 1941)

Dawson, Charles R., Ph.D. 246 Havemeyer Hall, Columbia University, New York City. *Assoc. Prof. of Chemistry.* (**2,** 1946)

Dawson, James Robertson, Jr., M.D. Vanderbilt Medical School, Nashville, Tenn. *Professor of Pathology.* (**4,** 1940)

Day, Harry G., D.Sc. Indiana University, Bloomington. *Associate Professor, Dept. of Chemistry.* (**5,** 1940; **2,** 1948)

Day, Paul L., M.A., Ph.D. University of Arkansas School of Medicine, Little Rock. *Professor of Physiological Chemistry.* (**2,** 1934; **5,** 1933)

De, N. N., M.B. Indian Institute of Science, P.O. Malleswaram, Bangalore, India. *Asst. Professor of Pharmacology.* (**3,** 1948)

Dearborn, Earl H., M.A., Ph.D. Johns Hopkins Univ. School of Medicine, 800 N. Washington St., Baltimore 5, Md. *Instructor in Pharmacology and Experimental Therapeutics.* (**3,** 1946)

de Beer, Edwin J., Ph.D. The Wellcome Research Laboratories, Tuckahoe, N. Y. *Assistant Director of Research.* (**3,** 1944)

De Bodo, Richard C., M.D. 477 First Ave., New York, N. Y. *Associate Professor of Pharmacology, New York Univ. College of Medicine.* (**1,** 1932; **3,** 1931)

De Boer, Benjamin, M.A., Ph.D. St. Louis University School of Medicine, 1402 South Grand Blvd., St. Louis 4, Mo. *Assistant Professor of Pharmacology.* (**1,** 1947; **3,** 1948)

DeEds, Floyd, M.A., Ph.D. 344 Santa Ana Ave., San Francisco, Calif. *Principal Pharmacologist, Western Regional Research Laboratory, 800 Buchanan St., Albany, Calif.* (**2,** 1937; **3,** 1927)

Defandorf, James Holmes, Ph.D. Office of the Chief of the Chemical Warfare Service, Washington, D. C. *Colonel, Sn.C.* (**3,** 1940)

de Gara, Paul F., M.D. 200 Pinehurst Ave., New York City. *Instructor in Pathology, Cornell University Medical College, Physician, New York Hospital.* (**6,** 1941)

DeGraff, Arthur C., M.D. New York University College of Medicine, New York City. *Professor of Therapeutics.* (**3,** 1937)

de Gutierrez-Mahoney, C. G., M.D. St. Vincent's Hospital, New York, N. Y. *Director, Neurological Division and Neurosurgeon-in-Chief.* (**1,** 1940; **4,** 1941)

Deichmann, William B., M.Sc., Ph.D. Albany Medical College, Albany, N. Y. *Associate Professor of Pharmacology and Head, Division of Pharmacology.* (**3,** 1941)

del Pozo, E. C., M.D. Medellin 196, Mexico, D. F., Mexico. (**1,** 1943)

Dempsey, Edward W., Sc.M., Ph.D. Harvard Medical School, Boston, Mass. *Associate Professor of Anatomy.* (**1,** 1940)

Denstedt, Orville F., Ph.D. McGill Univ., Montreal, Canada. *Asso. Professor of Biochemistry.* (**2,** 1948)

Derbyshire, Arthur J., Ph.D. EEG Department, Harper Hospital, Detroit, Mich. (**1,** 1939)

de Savitsch, Eugene, M.D. Suite 24, 1150 Connecticut Ave., Washington, D. C. *Clinical Instructor in Surgery, Georgetown University School of Medicine. Consulting Surgeon, Home of Incurables; Surgeon, Doctors Hospital.* (**4,** 1934)

Dettwiler, Herman A., M.S., Ph.D. Eli Lilly and Co., Indianapolis, Ind. *Assistant Director, Biological Division.* (**6,** 1946)

Deuel, Harry J., Jr., Ph.D. University of Southern California Medical School, Los Angeles. *Professor of Biochemistry.* (**1,** 1928; **2,** 1924; **5,** 1933)

Deulofeu, Venancio, D. Chem. Casilla Correo 2539, Buenos Aires, Argentina. *Professor of Organic Chemistry, University of Buenos Aires.* (**2,** 1942)

Deutsch, Harold F., Ph.D. Univ. of Wisconsin, Madison, Wis. *Asso. Professor of Physiological Chemistry.* (**2,** 1948)

Dey, Frederick L., Ph.D., M.D. Box 11, Submarine Base, New London, Conn. *Lt. (j.g.), U.S.N.R.* (**1,** 1945)

Dickison, H. L., M.A., Ph.D. Bristol Laboratories, Inc., Building 6, Syracuse 1, N. Y. (**3,** 1946)

Dieckmann, William J., M.D. The Chicago Lying-In Hospital, 5841 Maryland Avenue, Chicago 37, Ill. *Mary Campau Ryerson Professor and Chairman of the Department of Obstetrics and Gynecology,* University of Chicago. (**3,** 1947)

Dienes, Louis, M.D. Massachusetts General Hospital, Boston. *Bacteriologist.* (**6,** 1924)

Dill, David Bruce, M.A., Ph.D. Medical Division, Army Chemical Center, Md. *Scientific Director.* (**1,** 1941; **2,** 1927; **5,** 1936)

Dille, James M., M.S., Ph.D., M.D. Univ. of Washington School of Medicine, Seattle 5, Wash. *Professor of Pharmacology; Assistant Dean.* (**3,** 1939)

Dillon, Robert T., M.S., Ph.D. % G. D. Searle and Co., Box 5110, Chicago 80, Ill. *Head, Analytical Division.* (**2,** 1934)

Dingle, John H., Sc.D., M.D. Western Reserve University School of Medicine, Cleveland 6, Ohio. *Professor of Preventive Medicine.* (**6,** 1941)

Di Palma, Joseph R., M.D. Long Island College of Medicine, 350 Henry St., Brooklyn, N. Y. *Associate in Physiology.* (**1,** 1943)

Dische, Zacharias, M.D. Dept. of Biochemistry, College of Physicians and Surgeons, 630 W. 168th St., New York City. (**2,** 1944)

Dixon, Harold M., M.D. Army Institute of Pathology, Washington 25, D. C. (**4,** 1936)

Doan, Charles A., M.D. Ohio State University, College of Medicine, Columbus. *Dean; Professor of Medicine; Director of Medical Research.* (**4,** 1928)

Dobriner, Konrad, M.D. Sloan-Kettering Institute, 444 E. 68th St., New York 21, N. Y. *Member.* (**2,** 1946)

Dochez, A. Raymond, M.D., Sc.D. (hon.). Presbyterian Hospital, 620 W. 168th St., New York City. *John E. Borne Professor of Medical and Surgical Research, Columbia University; Member of National Academy of Sciences.* (**4R,** 1917; **6R,** 1922)

Dodds, Mary L., Ph.D. Pennsylvania State College, State College, Pa. *Professor, Foods and Nutrition Research.* (**5,** 1948)

Dohan, F. Curtis, M.D. 80 Princeton Rd., Cynwyd, Pa. *Fellow, George S. Cox Medical Research Institute; Associate in Medicine, University of Pennsylvania, Philadelphia.* (**1,** 1941)

Doisy, Edward A., M.S., Ph.D., Sc.D. St. Louis University School of Medicine, St. Louis 4, Mo. *Professor of Biological Chemistry; Member, National Academy of Sciences.* (**2,** 1920)

Dolman, C. E., D.P.H., Ph.D. The University of British Columbia, Vancouver, B.C., Canada. *Head, Dept. of Bacteriology and Preventive Medicine.* (**6,** 1947)

Dominguez, Rafael, M.D. Western Reserve University, Cleveland, Ohio. *Associate in Pathology; Director of Laboratories and Research, St. Luke's Hospital.* (**1,** 1935)

Donahue, D. D., D.Sc. Division of Industrial Hygiene, National Institute of Health, Bethesda, Md. *Physiologist, Toxicology Section, Division of Industrial Hygiene, U. S. Public Health Service.* (**3,** 1941)

Donelson, Eva G., Ph.D. The Ohio State University, Columbus, Ohio. *Professor of Home Economics.* (**5,** 1947)

Dorfman, Albert, Ph.D., M.D. Univ. of Chicago, Chicago, Ill. *Asst. Professor of Pediatrics.* (**2,** 1948)

Dorfman, Ralph I., Ph.D. Dept. of Biochemistry, Western Reserve University School of Medicine, Cleveland, O. *Assistant Professor of Biochemistry.* (**2,** 1940)

Dotti, Louis Basil, M.A., Ph.D. St. Luke's Hospital, Amsterdam Ave. and 113th St., New York City. *Chemist, St. Luke's Hospital; Lecturer in Physiology and Biochemistry, New York Medical College.* (**1,** 1937)

Doty, J. Roy, Ph.D. American Dental Association, 222 E. Superior St., Chicago, Ill. *Senior Chemist.* (**2,** 1941)

Doudoroff, Michael, Ph.D. Dept. of Bacteriology, 3531 Life Science Bldg., Univ. of Calif., Berkeley, Calif. *Associate Professor of Bacteriology.* (**2,** 1946)

Dounce, Alexander L., Ph.D. Strong Memorial Hospital, 260 Crittenden Blvd., Rochester, N. Y. *Instructor in Biochemistry, University of Rochester, School of Medicine and Dentistry.* (**2,** 1944)

Dow, Philip, Ph.D. University of Georgia School of Medicine, Augusta. *Associate Professor of Physiology.* (**1,** 1939)

Dow, Robert S., M.D., Ph.D. University of Oregon Medical School, Portland. *Associate Professor of Anatomy.* (**1,** 1940)

Downs, Ardrey W., M.A., M.D., D.Sc., F.A.C.P. University of Alberta, Edmonton, Alberta, Canada. *Professor of Physiology and Pharmacology.* (**1,** 1917)

Downs, Cora M., Ph.D. 1625 Alabama St., Lawrence, Kan. (**6,** 1929)

Doyle, William Lewis, M.A., Ph.D. 930 East 58th St., Chicago 37, Ill. *Associate Professor of Anatomy, University of Chicago.* (**1,** 1946)

Drabkin, David L., M.D. Graduate School of Medicine, University of Pennsylvania, Philadelphia. *Prof. and Chr., Dept. of Physiological Chemistry.* (**2,** 1928; **5,** 1934)

Dragstedt, Carl A., Ph.D., M.D. Northwestern University Medical School, 303 E. Chicago Ave., Chicago, Ill. *Professor of Pharmacology.* (**1,** 1928; **3,** 1932)

Dragstedt, Lester R., M.D., Ph.D. University of Chicago, Chicago, Ill. *Professor of Surgery.* (**1,** 1920)

Draize, J. H., Ph.D. Division of Pharmacology, Food & Drug Administration, Federal Security Agency, Washington, D. C. *Pharmacologist.* (**3,** 1940)

Drake, T. G. H., M.B., F.R.C.P. (c). University of Toronto, Toronto, Canada. *Junior Demonstrator in Pediatrics, Department of Medicine, University of Toronto; Clinical Assistant on Active Staff and Associate Director Research Laboratory, Hospital for Sick Children.* (**5,** 1936)

Draper, William B., M.Sc., M.D. University of Colorado School of Medicine, 4200 E. 9th Ave., Denver. *Associate Professor of Physiology and Pharmacology.* (**1,** 1947; **3,** 1938)

Dreisbach, Robert H., Ph.D., M.D. Stanford University School of Medicine, San Francisco 15, Calif. *Asst. Professor.* (**3,** 1945)

Dreyer, Nicholas Bernard, M.A. (Oxon) School of Medicine, University of Vermont, Burlington. *Associate Professor of Physiology and Pharmacology.* (**3,** 1942)

Drill, Victor Alexander, Ph.D. M.D. Wayne University College of Medicine, Detroit 26, Mich. *Professor of Pharmacology.* (**1,** 1943; **3,** 1946)

Drinker, Cecil K., M.D. Harvard University School of Public Health, Boston, Mass. *Professor of Physiology and Dean.* **(1, 1915)**

Dripps, Robert D., M.D. School of Medicine, University of Pennsylvania, Philadelphia 4. *Asst. Professor of Anesthesiology, Associate in Pharmacology.* **(1,** 1947; **3,** 1945)

Driver, Robert L., M.S., Ph.D. University of Pennsylvania Hospital, Philadelphia, Pa. **(1,** 1945; **3,** 1947)

Drury, Douglas R., M.D. University of Southern California, Los Angeles. *Professor of Physiology.* **(1,** 1932)

Dubin, Harry E., Ph.D. 11 W. 42nd St., New York 18, N. Y. *President, H. E. Dubin Laboratories, Inc.* **(2,** 1925)

Dubin, Isadore N., M.D. Institute of Pathology, University of Tennessee, Memphis 7, Tenn. *Associate Professor of Pathology and Bacteriology.* **(4,** 1947)

Dubnoff, Jacob W., Ph.D. 1201 E. California St., Pasadena 4, Calif. *Senior Research Fellow, California Institute of Technology.* **(2,** 1946)

DuBois, Eugene F., M.D. Cornell University Medical School, 1300 York Ave., New York, N. Y. *Professor and Head of the Department of Physiology and Biophysics; Attending Physician, New York Hospital; Member, National Academy of Sciences.* **(1,** 1913; **3,** 1921; **5,** 1935)

Du Bois, Kenneth P., B.S., M.S., Ph.D. Dept. of Pharmacology, Univ. of Chicago, Chicago 37, Ill. *Asst. Professor of Pharmacology.* **(3,** 1946)

Dubos, Rene J., Ph.D., D.Sc. Rockefeller Institute for Medical Research, 66th St. and York Ave., New York City. *Head, Dept. of Bacteriology.* **(6,** 1938)

Dugal, L. Paul, M.A., M.Sc., Ph.D. Research Department on Acclimatization, Medical School, Laval University, Quebec City, Canada. *Research Professor and Head of the Research Department on Acclimatization; Associate Director of the Institute of Hygiene.* **(1,** 1947)

Dukes, H. H., D.V.M., M.S. New York State Veterinary College, Cornell University, Ithaca, N. Y. *Professor of Veterinary Physiology.* **(1,** 1934)

Dulaney, Anna D., A.M., Ph.D. Pathological Institute, University of Tennessee, Memphis. *Associate Professor of Bacteriology, Medical School.* **(6,** 1924)

Dumke, Paul Rudolph, M.D. University of Pennsylvania Hospital, Philadelphia, Pa. *Assistant Professor of Surgery.* **(3,** 1942)

Dunlap, Charles E., M.D. Tulane University of Louisiana, 1430 Tulane Ave., New Orleans. *Professor of Pathology and Bacteriology.* **(4,** 1942)

Dunn, Max Shaw, Ph.D. University of California, Los Angeles. *Professor of Chemistry.* **(2,** 1933)

Dunn, Thelma Brumfield, M.D. The National Cancer Institute, Bethesda, Md. *Pathologist.* **(4,** 1945)

Dury, Abraham, Ph.D. George Washington Univ. School of Med., Washington, D. C. *Asst. Professor of Physiology.* **(1,** 1948)

Dutcher, James D., M.S., Ph.D. The Squibb Institute for Medical Research, New Brunswick, New Jersey. *Research Associate, Division of Organic Chemistry.* **(2,** 1946)

Dutcher, R. Adams, M.S., M.A., D.Sc. Pennsylvania State College, State College. *Professor and Head of Department of Agricultural and Biological Chemistry.* **(2,** 1920; **5,** 1933)

Duval, Charles Warren, M.D. Pensacola Hospital, Pensacola, Fla. **(4,** 1913)

du Vigneaud, Vincent, M.S., Ph.D. Cornell University Medical College, 1300 York Ave., New York 21, N. Y. *Professor of Biochemistry; Member, National Academy of Sciences.* **(2,** 1929; **5,** 1934)

Dworkin, Simon, D.D.S., M.D., C.M. Biology Building, McGill University, Montreal, Quebec, Canada. *Lecturer in Physiology, Faculty of Medicine.* **(1,** 1931)

Dye, J. A., Ph.D. James Law Hall, Cornell University, Ithaca, N. Y. *Professor of Physiology.* **(1,** 1929)

Dye, Marie, M.S., Ph.D. Michigan State College, East Lansing. *Dean, School of Home Economics.* **(2,** 1929; **5,** 1933)

Dyer, Helen M., M.S., Ph.D. National Cancer Institute, N.I.H., U.S.P.H.S., Bethesda, Md. *Biochemist.* **(2,** 1936; **5,** 1937)

Dziemian, Arthur J., Ph.D. Army Chemical Center, Medical Division, Edgewood, Md. *Physiologist, Biophysics Section.* **(1,** 1948)

Eadie, George S., Ph.D. Duke University School of Medicine, Box 3709, Durham, N. C. *Professor of Physiology and Pharmacology.* **(1,** 1929; **3,** 1940)

Eagle, Harry, A.B., M.D. United States Public Health Service, Bethesda, Md. *Medical Director; Scientific Director, National Cancer Institute.* **(3,** 1946; **4,** 1936)

Eakin, Robert E., Ph.D. Dept. of Chemistry, Univ. of Texas, Austin, Texas. *Asso. Professor of Chemistry.* **(2,** 1948)

Earle, D. P., Jr., M.D., Med. Sc.D. New York University College of Medicine, 477 First Avenue, New York 16, N. Y. *Associate Professor of Medicine.* **(1,** 1947)

Earle, Wilton R., Ph.D. U. S. Public Health Service, National Cancer Institute, Bethesda, Md. *Principal Cytologist.* **(4,** 1940)

Eaton, Monroe D., M.D. Harvard Medical School, Boston, Mass. *Assoc. Professor of Bacteriology and Immunology.* **(6,** 1937)

Eckenhoff, James E., M.D. Univ. of Pennsylvania School of Medicine, Philadelphia, Pa.

Asso. in Clinical Pharmacology and Anesthesiology. (1, 1948)

Ecker, E. E., Ph.D. School of Medicine, Western Reserve University, 2085 Adelbert Rd., Cleveland, O. *Professor of Immunology.* (4, 1925; 6, 1947)

Eckstein, Gustav, M.D. Univ. of Cincinnati College of Med., Cincinnati, Ohio. *Asso. Professor of Physiology.* (1, 1948)

Eckstein, Henry C., M.S., Ph.D. 320 W. Medical Building, University of Michigan, Ann Arbor. *Associate Professor of Biological Chemistry.* (2, 1925)

Eckstein, R. W., M.A., M.D. Department of Medicine, Western Reserve University, Cleveland, Ohio. *Senior Instructor; in charge of Cardiovascular Experimental Medical Research Laboratory.* (1, 1947)

Eddy, Nathan B., M.D. National Institute of Health, Bethesda, Md. *Principal Pharmacologist, United States Public Health Service.* (3, 1929)

Eddy, Walter H., A.M., Ph.D. American Chlorophyll, Inc., Lake Worth, Fla. *Scientific Director.* (2, 1913; 5, 1933)

Edelmann, Abraham, Ph.D. Brookhaven National Laboratories, Upton, L. I., N. Y. *Physiologist.* (1, 1948)

Edholm, O. G., M.B. Univ. of Western Ontario Med. School, London, Canada. *Head, Dept. of Physiology.* (1, 1948)

Edsall, Geoffrey, M.D. Antitoxin and Vaccine Laboratory, 375 South St., Jamaica Plain, Mass. *Acting Director, Division of Biologic Laboratories, Massachusetts Department of Public Health; Associate in Public Health Laboratory Methods, Simmons College; Instructor in Applied Immunology, Harvard School of Public Health.* (6, 1943)

Edsall, John Tileston, M.D. Harvard Medical School, Boston, Mass. *Associate Professor of Biological Chemistry and Tutor in Biochemical Sciences.* (2, 1931).

Edwards, Dayton J., Ph.D. Cornell University Medical College, 1300 York Ave., New York City. *Associate Professor of Physiology; Assistant Dean.* (1, 1921)

Edwards, Jesse E., M.D. Mayo Clinic, (Sect. Path. Anat.), Rochester 4, Minn. *Assistant Professor of Pathologic Anatomy, Mayo Foundation, Graduate School, University of Minnesota.* (4, 1941)

Edwards, J. Graham, A.M., Ph.D. 24 High St., Buffalo, N. Y. *Assistant Professor of Anatomy, University of Buffalo.* (1, 1932)

Eggerth, Arnold H., Ph.D. Hoagland Laboratory, 335 Henry St., Brooklyn, N. Y. *Associate Professor of Bacteriology, Long Island College of Medicine.* (4, 1925)

Ehrenstein, Maximilian R., Ph.D. 806 Maloney Clinic, University of Pennsylvania Hospital, Philadelphia, Pa. *Assoc. Prof. of Physiological Chemistry assigned to Medicine, Univ. of Pennsylvania School of Medicine.* (2, 1942)

Ehrich, William E., M.D. University of Pennsylvania Medical School, Philadelphia. *Professor of Histology and Pathology, Graduate School of Medicine; Chief, Division of Pathology, Phila. General Hospital.* (4, 1945)

Eichelberger, Lillian, Ph.D. University of Chicago, Dept. of Medicine, Chicago, Ill. *Associate Professor of Biochemistry.* (2, 1937)

Eiler, John J., Ph.D. Univ. of California Medical Center, San Francisco, Calif. *Assoc. Professor of Biochemistry and Pharmacology, Univ. of California Coll. of Pharmacy.* (2, 1948)

Eisenman, Anna J., Ph.D. U. S. Public Health Service Hospital, Lexington, Ky. *Biological Chemist.* (2, 1930)

Elberg, Sanford S., Ph.D. Univ. of California, Berkeley, Calif. *Assoc. Professor of Bacteriology.* (6, 1948)

Elderfield, Robert C., Ph.D. Columbia University, New York City. *Professor of Chemistry.* (2, 1934)

Elftman, Herbert, M.A., Ph.D. College of Physicians and Surgeons, Columbia University, 630 W. 168th St., New York City. *Assistant Professor in Anatomy.* (1, 1940)

Eliot, Martha M., M.D. United States Children's Bureau, Washington 25, D. C. *Associate Chief.* (5, 1933)

Elkinton, J. Russell, M.D. University of Pennsylvania Hospital, Philadelphia, Pa. *Dept. of Medicine.* (1, 1947)

Elliott, Henry W., Ph.D. Univ. of California Medical School, San Francisco, Calif. *Instructor in Pharmacology and Lecturer in Dental Pharmacology and Toxicology.* (3, 1948)

Elliott, K. Allan C., M.Sc., Ph.D. Montreal Neurological Institute, 3801 University St., Montreal, Canada. *Assistant Professor in Neurology, Biochemistry, McGill University.* (2, 1937)

Ellis, C. H., M.S., Ph.D. Laboratories of Gordon A. Alles, 770 S. Arroyo Parkway, Pasadena 5, Calif. *Research Associate in Physiology.* (1, 1947)

Ellis, Fred W., M.S., Ph.D. University of North Carolina, Chapel Hill. *Assistant Professor of Pharmacology.* (3, 1945)

Ellis, Lillian N., Ph.D. Adelphi College, Garden City, N. Y. *Instructor in Chemistry.* (5, 1940)

Ellis, Max Mapes, A.M., Ph.D., Sc.D. Medical School, University of Missouri, Columbia. *Professor of Physiology and Pharmacology.* (1, 1923)

Ellis, N. R., M.S. Bureau of Animal Industry,

U. S. Department of Agriculture, Agricultural Research Center, Beltsville, Md. *Asst. Chief, Animal Husbandry Division.* (**2,** 1928; **5,** 1933)

Ellis, Sydney, M.A., Ph.D. Department of Physiology and Pharmacology, Duke University School of Medicine, Durham, N. C. *Assistant Professor of Pharmacology.* (**3,** 1947)

Elrod, Ralph P., M.S., Ph.D. University of South Dakota Medical School, Vermillion, S. D. *Chairman of Department of Microbiology.* (**6,** 1947)

Elser, William J., M.D. Kent, Conn. (**6,** 1920)

Elvehjem, Conrad Arnold, M.S., Ph.D., Sc.D. Biochemistry Building, University of Wisconsin, Madison. *Chairman, Dept. of Biochemistry; Dean of Graduate School; Member, National Academy of Sciences.* (**2,** 1931; **5,** 1933)

Embree, Norris Dean, Ph.D. Distillation Products, Inc., 755 Ridge Road West, Rochester 13, N.Y. *Acting Director of Research.* (**2,** 1946)

Emerson, George A., M.S., Ph.D. University of Texas, Medical Branch, Galveston. *Professor of Pharmacology.* (**3,** 1935)

Emerson, Gladys A., Ph.D. Merck Institute of Therapeutic Research, Rahway, N. J. *Nutritionist.* (**5,** 1942)

Emerson, Oliver H., Ph.D. Western Regional Research Laboratory, U. S. Dept. of Agriculture, Albany 6, Calif. *Associate Chemist.* (**2,** 1938)

Emery, Frederick E., D.V.M., M.S., Ph.D. University of Arkansas School of Medicine, Little Rock. *Professor of Physiology and Pharmacology.* (**1,** 1930)

Emmart, Emily W., M.A., Ph.D. National Institute of Health, Bethesda 14, Md. (**3,** 1947)

Emmett, Arthur D., M.A., Ph.D. Star Route 1, Lewiston, Mich. (**2,** 1908; **5,** 1933)

Enders, John F., A.M., Ph.D. Department of Bacteriology, Medical School, Harvard University, Boston, Mass. *Associate Professor of Bacteriology and Immunology; Chief, Research Division of Infectious Diseases, Children's Hospital.* (**6,** 1936)

Endicott, Kenneth M., M.D. National Institute of Health, Bethesda 14, Md. *Surgeon, U. S. Public Health Service, Division of Pathology.* (**4,** 1947)

Engel, Frank L., M.D. Duke University School of Medicine, Durham, North Carolina. *Associate in Medicine.* (**1,** 1947)

Engel, Ruben W., Ph.B., Ph.D. Lab. of Animal Nutrition, Alabama Polytechnic Institute, Auburn, Ala. *Animal Nutritionist.* (**5,** 1948)

Engle, Earl Theron, Ph.D. College of Physicians and Surgeons, Columbia University, 630 W. 168th St., New York City. *Professor of Anatomy.* (**1,** 1930)

English, James, Jr., Ph.D. Sterling Chemistry Laboratory, Yale Univ., New Haven, Conn. *Assistant Professor of Chemistry.* (**2,** 1946)

Enright, John B., Ph.D. State of California Dept. of Public Health, Berkeley, Calif. *Supervising Bacteriologist.* (**6,** 1948)

Epstein, Albert A., M.D. 1111 Madison Ave., New York City. *Physician, Beth Israel Hospital; Physician, Hospital for Joint Diseases.* (**2,** 1912)

Ercoli, N., M.D., Ph.D. Warner Institute for Therapeutic Research, New York 11, N. Y. *Director of Pharmacological Research.* (**3,** 1947)

Erickson, Cyrus C., M.D. Duke University School of Medicine, Durham, N. C. *Associate Professor of Pathology.* (**4,** 1941)

Erickson, John Otto, Ph.D. Atomic Energy Commission Project, Univ. of Rochester School of Medicine, Rochester, N. Y. *Research Biochemist.* (**6,** 1946)

Eschenbrenner, Allen B., M.D. *Surgeon USPHS, National Institute of Health, Bethesda 14, Md.* (**4,** 1946)

Espe, Dwight L., Ph.D. Department of Dairy Husbandry, State College Station, Fargo, N. Dak. (**1,** 1940)

Essex, Hiram E., M.S., Ph.D. Mayo Foundation, Rochester, Minn. *Professor of Physiology, Institute of Experimental Medicine.* (**1,** 1932; **3,** 1940)

Ettinger, C. H., M.D., C.M., F.R.S.C. Queen's University, Kingston, Canada. *Professor of Physiology; Assistant Director, Division of Medical Research, National Research Council, Ottawa.* (**1,** 1943)

Evans, Earl Alison, Jr., Ph.D. Department of Biochemistry, University of Chicago, Chicago, Ill. *Professor and Chairman of Department.* (**2,** 1939)

Evans, Everett Idris, M.D., Ph.D. Department of Surgery, Medical College of Virginia, Richmond. *Assistant Professor of Surgery.* (**1,** 1935)

Evans, Gerald Taylor, M.D., Ph.D. University of Minnesota Hospitals, Minneapolis. *Director of Laboratory Service, University of Minnesota Hospitals; Associate Professor of Medicine, University of Minnesota.* (**1,** 1942)

Evans, Herbert M., M.D. University of California, Berkeley. *Professor of Anatomy and Director of Institute of Experimental Biology; Member of the National Academy of Sciences.* (**1,** 1919)

Eveleth, D. F., Ph.D., D.V.M. North Dakota Agricultural College, Fargo. *Professor, Veterinary Science, North Dakota Agricultural Experiment Station.* (**2,** 1939)

Everett, Mark R., Ph.D. University of Oklahoma School of Medicine, Oklahoma City.

Dean and Professor of Biochemistry. (**2,** 1929)

Everson, Gladys, Ph.D. Iowa State College, Ames, Iowa. *Assoc. Professor of Nutrition.* (**5,** 1948)

Ewing, P. L., M.S., Ph.D. University of Texas School of Medicine, Galveston. *Associate Professor of Pharmacology.* (**3,** 1938)

Eyster, John A. English, M.D. University of Wisconsin, Madison. *Professor of Physiology.* (**1,** 1906; **3R,** 1908)

Fahr, George, M.D. 102 Millard Hall, Univ. of Minnesota, Minneapolis. *Professor of Clinical Medicine.* (**1,** 1913; **3,** 1940)

Failey, Crawford F., Ph.D. 5454 South Shore Drive, Chicago 15, Ill. *Professor of Biochemistry, University of Chicago.* (**2,** 1933)

Fairhall, Lawrence T., M.A., Ph.D. U. S. Public Health Service, Washington, D. C. *Principal Industrial Toxicologist.* (**2,** 1924).

Falk, Carolyn R., B.A. 40 E. 66th St., New York City. *Bacteriologist, Bureau of Laboratories, New York City Dept. of Health.* (**6,** 1943)

Falk, K. George, Ph.D. 40 E. 66th St., New York City. *Director, Laboratory of Industrial Hygiene.* (**2,** 1913)

Farah, Alfred E., M.D. Univ. of Washington School of Medicine, Seattle, Wash. *Asst. Professor of Pharmacology.* (**3,** 1948)

Farber, Sidney, M.D. Harvard Medical School, 25 Shattuck St., Boston, Mass. *Assistant Professor of Pathology.* (**4,** 1934)

Farmer, Chester J., A.M. Northwestern Medical School, 303 E. Chicago Ave., Chicago, Ill. *Professor of Chemistry.* (**2,** 1935)

Farr, Lee E., M.D. Alfred I. duPont Institute, Wilmington, Del. *Director of Research, Pediatrician-in-Chief.* (**4,** 1941)

Farrar, George E., Jr., M.D. *Chief,* Medical Service A, Episcopal Hospital, 3401 N. Broad Street, Philadelphia 40, Pennsylvania. *Associate Professor of Medicine,* Temple University and Hospital. (**3,** 1947)

Farrell, James L., Ph.D., M.D. 636 Church St., Evanston, Illinois. (**1,** 1938)

Fassett, David W., A.B., M.D., Eastman Kodak Co., Lab. of Industrial Medicine, Kodak Park Works, Rochester, N. Y. (**3,** 1942)

Fay, Marion, M.A., Ph.D. Woman's Medical College of Pennsylvania, Philadelphia 29. *Professor of Physiological Chemistry and Dean.* (**2,** 1937)

Featherstone, Robert M., M.S., Ph.D. College of Medicine, State University of Iowa, Iowa City, Iowa. *Assistant Professor of Pharmacology.* (**3,** 1947)

Feigen, George A., A.B. Dept. of Pharmacology and Toxicology, University of Southern California, School of Medicine, Los Angeles 7. (**1,** 1948)

Feldman, Harry A., M.D. Children's Hospital Research Foundation, Cincinnati, Ohio. *Fellow, National Research Council.* (**6,** 1943)

Feldman, William H., D.V.M., M.S. The Mayo Foundation, Rochester, Minn. *Professor in the Division of Experimental Surgery and Pathology.* (**4,** 1934)

Fell, Norbert, Ph.D. Camp Detrick, Frederick, Maryland. *Chief, Pilot Plant Division.* (**6,** 1944)

Feller, A. E., M.D. Western Reserve School of Medicine, Cleveland 6, Ohio. *Associate Professor of Preventive Medicine.* (**6,** 1943)

Fellows, Edwin J., M.S., Ph.D. Temple University School of Medicine, Philadelphia, Pa. *Assistant Professor of Pharmacology.* (**3,** 1939)

Felton, Lloyd D., M.D., D.Sc. National Institute of Health, Bethesda, Md. *Medical Director, USPHS.* (**6,** 1926)

Fenn, Wallace Osgood, A.M., Ph.D. University of Rochester School of Medicine and Dentistry, 260 Crittenden Blvd., Rochester, N. Y. *Professor of Physiology; Member, National Academy of Sciences.* (**1,** 1924)

Fenning, Con, M.D., M.A. University of Utah School of Medicine, Salt Lake City. *Professor of Pharmacology and Physiology.* (**1,** 1942)

Fenton, P. F., M.S., Ph.D. Department of Physiological Chemistry, Yale University School of Medicine, New Haven 11, Conn. *Research Assistant.* (**1,** 1947)

Ferguson, James Kenneth Wallace, M.A., M.D. 76 Kilbarry Rd., Toronto, Ontario, Canada. *Professor of Pharmacology, University of Toronto; Wing Commander, R.C.A.F.* (**1,** 1933; **3,** 1941)

Ferguson, John Howard, M.D., M.A., L.M.S.S.A. Dept. of Physiology, School of Medicine, University of North Carolina, Chapel Hill. *Professor of Physiology and Acting Professor of Pharmacology.* (**1,** 1933)

Ferguson, L. Kraeer, M.D. 133 S. 36th St., Philadelphia 4, Pa. *Professor of Surgery, Graduate School, Univ. of Pennsylvania; and Woman's Medical College of Pennsylvania; Surgeon, Doctors Hospital and Woman's Medical College, Graduate Hosp., Philadelphia General Hospital.* (**4,** 1935)

Ferry, John Douglass, Ph.D. Univ. of Wisconsin, Madison, Wis. *Professor of Chemistry.* (**2,** 1941)

Ferry, Ronald M., M.D. 966 Memorial Drive, Cambridge, Mass. *Associate Professor of Biochemistry, Harvard University.* (**2,** 1924)

Fetcher, Edwin S., Ph.D. R.D. #4, Xenia, Ohio. (**1,** 1944)

Fetter, Dorothy, Ph.D. Department of Hygiene, Brooklyn College, Brooklyn, N. Y. *Instructor in Physiology.* (**1,** 1944)

Fevold, Harry L., M.S., Ph.D. 1849 W. Pershing Road, Chicago 9, Ill. *Chief, Food Research*

Division, Quartermaster Food and Container Institute. (2, 1942)

Field, John, II, A.M., Ph.D. Department of Physiology, Stanford University, Stanford, Calif. *Professor of Physiology.* (1, 1930)

Fincke, Margaret L., Ph.D. Oregon State College, Corvallis. *Associate Professor of Foods and Nutrition, School of Home Economics.* (5, 1940)

Findley, Thomas, Jr., M.D. Ochsner Clinic, 3503 Prytania, New Orleans, La. *Head of the Department of Internal Medicine, Ochsner Clinic, New Orleans; Assistant Professor of Clinical Medicine, Tulane University School of Medicine.* (1, 1938)

Finerty, John C., M.S., Ph.D. Department of Anatomy, Washington University School of Medicine, St. Louis 10, Mo. *Assistant Professor of Anatomy.* (1, 1947)

Finland, Maxwell, M.D. Boston City Hospital, Boston, Mass. *Assistant Professor of Medicine, Harvard Medical School.* (6, 1941)

Finnegan, J. K., Ph.D. Medical College of Virginia, Richmond 19, Va. *Assistant Professor of Pharmacology.* (3, 1947)

Firor, Warfield Monroe, M.D. Johns Hopkins Hospital, Baltimore, Md. *Associate Professor of Surgery, Johns Hopkins University.* (1, 1932)

Fischel, Edward E., M.D., D.Med. Sc. Columbia Univ., New York City. *Fellow in Medicine.* (6, 1948)

Fischer, Ernst, M.D., Dr. habil. Medical College of Virginia, Richmond. *Professor of Physiology* (1, 1936)

Fischer, Hermann O. L., Ph.D. Banting Institute, 100 College St., University of Toronto, Toronto 5, Canada. *Research Professor of Organic Chemistry.* (2, 1940)

Fischer, Martin H., M.D., Pharm. D. (hon.), Sc.D. University of Cincinnati College of Medicine, Eden Ave., Cincinnati 19, O. *Professor of Physiology.* (1, 1901; 2, 1919)

Fishberg, Ella H., M.A., M.D. Beth Israel Hospital, Stuyvesant Park East, New York City. *Biochemist.* (2, 1931)

Fisher, Albert Madden, Ph.D. Connaught Med. Res. Laboratories, University of Toronto, Toronto, Canada. *Research and Administrative Associate.* (2, 1944)

Fisher, Kenneth C., M.A., Ph.D. University of Toronto, Toronto, Ont., Canada. *Assistant Professor of Physiological Zoology.* (1, 1940)

Fishman, William H., Ph.D. Tufts College Med. Sch., 30 Bennet St., Boston, Mass. *Res. Prof. of Biochemistry.* (2, 1947)

Fiske, Cyrus H., M.D. Harvard Medical School, Boston, Mass. *Professor of Biological Chemistry.* (2, 1914)

Fitzhugh, O. Garth, Ph.D. Division of Pharmacology, Food and Drug Administration, Federal Security Agency, Washington, D. C. *Pharmacologist.* (3, 1940)

Fleischmann, Walter, M.D., Ph.D. Medical Division, Army Chemical Center, Md. *Chief, Physiology Section; Instructor in Pediatrics, Johns Hopkins University.* (1, 1940)

Fleisher, Moyer S., M.D. Jewish Hospital, St. Louis, Mo. *Research Bacteriologist.* (4, 1924; 6, 1932)

Flexner, Louis B., M.D. Carnegie Labs., Carnegie Institution of Washington, Wolfe and Madison Sts., Baltimore, Md. *Research Associate, Department of Embryology.* (1, 1933; 2, 1948)

Flock, Eunice V., Ph.D. Mayo Clinic, Rochester, Minn. *Associate Professor in Experimental Medicine, Mayo Foundation, Univ. of Minnesota.* (2, 1940)

Florman, Alfred L., M.D. Mt. Sinai Hospital, New York City. *Investigator in Virology.* (6, 1942)

Flosdorf, Earl W., Ph.D. Forest Grove, Pa. University of Pennsylvania School of Medicine. *Director of Research.* (6, 1941)

Floyd, Cleveland, M.D., Sc.D. 246 Marlborough St., Boston, Mass. *Chief Examiner, Boston Health Dept.* (6, 1916)

Foa, Piero Pio, Ph.D. 710 S. Wolcott St., Chicago Ill. *Associate Professor of Physiology and Pharmacology, Chicago Medical School.* (1, 1944)

Folch, Jordi, M.D. McLean Hospital, Waverly, Mass. *Assistant Professor of Biological Chemistry, Harvard Medical School. Director of Scientific Research, McLean Hospital.* (2, 1941).

Folkers, Karl, Ph.D. Merck and Co., Inc. Rahway, N. J. *Director of Organic and Biochemical Research.* (2, 1947)

Follensby, Edna M., Ph.G. 80 E. Concord St., Boston, Mass. *Research Assistant, Evans Memorial. Special Instructor in Biology, Simmons College.* (6, 1933)

Follis, Richard H., Jr., M.D. School of Medicine, Johns Hopkins University. *Associate Professor of Pathology.* (4, 1942)

Fontaine, Thomas Davis, Ph.D. Agricultural Research Center, Beltsville, Md. *Biochemist and Acting Head, Div. of Biologically Active Compounds.* (2, 1946)

Foot, Nathan Chandler, M.D. Cornell Univ. Med. Coll., New York City. *Emeritus Professor, Surgical Pathology.* (4, 1924)

Forbes, Alexander, A. M., M.D. Harvard Medical School, Boston, Mass. *Professor of Physiology; Member of the National Academy of Sciences.* (1, 1910)

Forbes, Ernest B., Ph.D. State College, Pa. *Professor Emeritus Animal Nutrition.* (1R, 1917; 5, 1935)

Forbes, John C., M.A., Ph.D. Medical College of Virginia, Richmond. *Research Professor of Biochemistry.* (2, 1937)

Forbes, William H., M.A., Ph.D. Harvard University, Fatigue Laboratory, Boston, Mass. *Research Fellow, Assistant Director of Fatigue Lab., Assistant Professor of Industrial Physiology.* (1, 1943)

Forster, Francis M., M.D. Jefferson Med. College, Philadelphia, Pa. *Asst. Professor of Neurology.* (1, 1948)

Fosdick, Leonard S., Ph.D. 311 E. Chicago Ave., Chicago, Ill. *Professor of Chemistry, Northwestern University.* (2, 1944)

Foster, G. L., Ph.D. College of Physicians and Surgeons, 630 W. 168th St., New York City. *Professor of Biological Chemistry.* (2, 1923)

Foster, Harry E., M.D. Fairmont Hotel, San Francisco, Calif. (6, 1913)

Foster, Jackson W., Ph.D. Dept. of Botany and Bacteriology, Univ. of Texas, Austin 12, Texas. *Associate Professor of Bacteriology.* (2, 1946)

Foster, Robert H. K., Ph.D., M.D. St. Louis University School of Medicine, St. Louis, Mo. *Professor and Director of Dept. of Pharmacology.* (1, 1940; 3, 1944)

Fothergill, LeRoy D., M.D. Camp Detrick, Frederick, Maryland. *Asst. Technical Director.* (6, 1936)

Fox, Sidney W., Ph.D. Chemistry Dept., Iowa State College, Ames, Iowa. *Professor of Chemistry; Research Professor, Chemistry Section, Iowa Agricultural Experiment Station; Research Professor of Chemistry, Industrial Science Research Institute, Iowa State College.* (2, 1946)

Fraenkel-Conrat, Heinz, M.D., Ph.D. Western Regional Research Laboratory, U. S. Dept. of Agriculture, Albany 6, Calif. *Chemist.* (2, 1942)

Francis, Thomas, Jr., M.D., M.S. (hon.), Sc.D. (hon.). School of Public Health, University of Michigan, Ann Arbor. *Henry Sewall Prof. of Epidemiology.* (4, 1940; 6, 1930)

Franke, Florent E., M.D. 9 Sylvester, Webster Groves, Mo. *Assistant Professor of Physiology, St. Louis University School of Medicine.* (1, 1934)

Frankel, Edward M., Ph.D. 214 River Rd., Nyack, N. Y. *Consulting Chemist.* (2, 1916)

Fraps, R. M., Ph.D. Bureau of Animal Husbandry, Beltsville, Md. *Senior Physiologist.* (1, 1947)

Fraser, Alexander MacLeod, A.M., M.D., C.M. Dalhousie University, Halifax, Nova Scotia. *Professor of Pharmacology.* (3, 1939)

Fraser, Donald T., M.B., D.P.H., F.R.S.C. Connaught Laboratories, University of Toronto, Toronto 5, Canada. *Professor of Hygiene and Preventive Medicine.* (6, 1935)

Frear, Donald E. H., M.S., Ph.D. Dept. of Agricultural and Biological Chemistry. The Pennsylvania State College, State College, Pa. *Professor of Agriculture and Biological Chemistry.* (2, 1946)

Fredette, Victorian. Univ. of Montreal, Montreal, Canada. *Asst. Professor of Bacteriology; Asso. Director, Inst. of Microbiology.* (6, 1948)

Free, Alfred H., M.S., Ph.D. Research Laboratory, Miles Laboratories, Inc., Elkhart, Ind. *Head of Biochemistry Section* (2, 1946; 5, 1944)

Freeman, Harry, M.D. Worcester State Hospital, Worcester, Mass. *Internist, Research Service.* (1, 1939)

Freeman, Leslie Willard, Ph.D., M.D. University of Indiana, Dept. of Surgery, Indianapolis, Ind. *Asst. Professor of Surgery, Director of Surgical Research.* (1, 1944)

Freeman, Norman E., M.D. Department of Surgery, University of California Medical School, San Francisco 22. (1, 1936)

Freeman, Smith, M.D., Ph.D. Northwestern University School of Medicine, 303 E. Chicago Ave., Chicago, Ill. *Assistant Professor of Physiology and Pharmacology.* (1, 1937)

French, Cyrus E., Ph.D. Pennsylvania State College, State College, Pa. *Asso. Professor of Animal Nutrition.* (5, 1948)

French, C. Stacy, Ph.D. Carnegie Institution of Washington, Stanford University, Calif. *Director, Division of Plant Biology.* (1, 1947; 2, 1946)

Freund, Jules, M.D. Public Health Research Institute of the City of New York, New York City. *Member and Chief of the Division of Applied Immunology.* (4, 1930; 6, 1924)

Frey, Charles N., Ph.D., Dr.S. 45 Cambridge Rd., Scarsdale, N. Y. *Director, Scientific Relations, Standard Brands Inc.* (5, 1948)

Fried, Josef, Ph.D. Squibb Institute for Medical Research, New Brunswick, N. J. *Asso. Member, Division of Organic Chemistry.* (2, 1948)

Friedman, Townsend B. Children's Memorial Hospital, Chicago, Ill. *Attending Allergist.* (6, 1948)

Friedemann, Theodore E., M.A., Ph.D. Northwestern University Medical School, 303 E. Chicago Ave., Chicago, Ill. *Associate Professor of Physiology.* (2, 1925)

Friedemann, Ulrich, M.D. Department of Bacteriology, The Jewish Hospital of Brooklyn, Classon and St. Marks Ave., Brooklyn, N. Y. (6, 1938)

Friedenwald, Jonas S., M.D., M.A. 1212 Eutaw Place, Baltimore 17, Md. The Johns Hopkins Hospital, Baltimore. *Associate Professor of Ophthalmology.* (1, 1947)

Friedewald, William F., M.D. Emory University School of Medicine, Atlanta, Ga. *Professor of*

Bacteriology; Associate Professor of Medicine. (**4,** 1941)

Friedgood, Harry B., M.D. University of California, Los Angeles, Calif. *Assoc. Clin. Professor of Medicine;* California Inst. of Cancer Research, *President and Chairman;* Cedars of Lebanon Hospital, *Consultant, Inpatient Staff Dept. of Medicine.* (**1,** 1936)

Friedman, Maurice H., Ph.D., M.D. 2040 Belmont Rd., Washington 9, D. C. (**1,** 1929)

Friedman, Meyer, M.D. Harold Brunn Institute for Cardiovascular Research, Mt. Zion Hospital, 2200 Post St., San Francisco, Calif. *Director.* (**1,** 1947)

Friedman, M. H. F., M.A., Ph.D. Jefferson Medical College of Philadelphia, 1025 Walnut St., Philadelphia, Pa. *Assoc. Professor of Physiology.* (**1,** 1941)

Friedman, Nathan B., M.D. Cedars of Lebanon Hospital, Los Angeles, Calif. (**4,** 1942)

Friedman, Sydney M., M.D., Ph.D. Department of Anatomy, McGill University, Montreal 2, Canada. *Assistant Professor of Anatomy.* (**1,** 1947)

Frost, Douglas Van Anden, Ph.D. Abbott Laboratories, North Chicago, Ill. *Head of Nutritional Research.* (**2,** 1946; **5,** 1947)

Fruton, J. S., Ph.D. Yale School of Medicine, 333 Cedar St., New Haven, Conn. *Associate Professor of Physiological Chemistry.* (**2,** 1938)

Fugo, Nicholas W., M.S., Ph.D. Department of Obstetrics and Gynecology, University of Chicago, Chicago, Ill. (**3,** 1944)

Fuhrman, Frederick A., M.S., Ph.D. Dept. of Physiology, Stanford Univ., Stanford University, Calif. *Instructor in Physiology.* (**1,** 1946)

Fulton, John Farquhar, M.A., Ph.D., M.D. Yale University School of Medicine, New Haven, Conn. *Sterling Professor of Physiology.* (**1,** 1925)

Funk, Casimir, D.Sc., Ph.D. 186 Riverside Drive, New York 24, N. Y. (**2,** 1921)

Furchgott, Robert F., Ph.D. Cornell Univ. Medical College, New York City. *Asst. Professor of Biochemistry in Medicine.* (**2,** 1948)

Furth, Jacob, M.D. Veterans Administration Hospital, Dallas, Texas. *Chief of Laboratory.* (**4,** 1932; **6,** 1930)

Gaebler, Oliver H., Ph.D., M.D. Henry Ford Hospital, Detroit, Mich. *Head, Department of Biochemistry, Edsel B. Ford Inst. for Med. Res.* (**2,** 1927)

Gaffron, Hans, Ph.D. Department of Chemistry, University of Chicago, Chicago, Ill. *Associate Professor of Biochemistry.* (**2,** 1941)

Gagge, Adolf Pharo, Ph.D. Aeromedical Research Laboratory, Wright Field, Dayton, O. *Lt. Col.; Chief, Biophysics Branch, Air Corps, U. S. Army; on leave from Yale University and John B. Pierce Laboratory of Hygiene.* (**1,** 1939)

Galambos, Robert, Ph.D., M.D. Psycho-Acoustic Laboratory, *Research Fellow, Harvard University.* (**1,** 1942)

Gall, Edward A., M.D. Cincinnati General Hospital, Cincinnati, O. *Assistant Professor of Pathology, College of Medicine, University of Cincinnati.* (**4,** 1941)

Gallagher, Thomas F., Ph.D. Sloan-Kettering Institute, 444 E. 68th St., New York 21, N. Y. *Member.* (**2,** 1932)

Gallup, Willis D., M.S., Ph.D. Oklahoma Agricultural and Mechanical College, Stillwater. *Chemist and Professor of Agricultural Chemistry.* (**2,** 1932)

Gamble, James L., M.D., S.M. 33 Edgehill Rd., Brookline, Mass. *Professor of Pediatrics, Harvard Medical School.* (**2,** 1922; **5,** 1933)

Gantt, W. Horsley, M.D. Phipps Psychiatric Clinic, Johns Hopkins Hospital, Baltimore, Md. *Associate in Psychiatry.* (**1,** 1935)

Garbat, Abraham L., M.D. 103 E. 78th St., New York City. *Director, Med. Service, Lenox Hill Hospital, Clinical Professor of Med., New York Univ. Med. School.* (**6,** 1913)

Garner, Raymond L., Ph.D. University of Michigan Med. Sch., Ann Arbor, Mich. *Asst. Prof. of Biological Chemistry.* (**2,** 1947)

Garrey, Walter Eugene, Ph.D., M.D. Vanderbilt University School of Medicine, Nashville, Tenn. *Professor Emeritus of Physiology.* (**1R,** 1910; **2,** 1906)

Gasser, Herbert S., A.M., M.D., Sc.D. (hon.) Rockefeller Institute for Medical Research, 66th St. and York Ave., New York City. *Director of Laboratories; Member of the National Academy of Sciences.* (**1,** 1915; **3,** 1924)

Gassner, Frank X., M.S., D.V.M. Colorado A and M College, Fort Collins. *Associate Professor of Physiology, Colorado State College; Associate Pathologist, Colorado State Experiment Station.* (**1,** 1947)

Gates, Olive, M.D. 25 Shattuck St., Boston, Mass. *Associate Pathologist.* (**4,** 1940)

Gaunt, Robert, Ph.D. Syracuse University, Syracuse, N. Y. *Professor and Chairman of the Department of Zoology.* (**1,** 1939)

Gay, Leslie N., M.D. 1114 St. Paul St., Baltimore, Md. *Director of the Allergy Clinic, Johns Hopkins Hospital; Visiting Physician to Johns Hopkins Hospital; Associate in Medicine, Johns Hopkins University.* (**6,** 1927)

Geiling, E. M. K., M.S., M.D., Ph.D. University of Chicago, Chicago, Ill. *Frank P. Hixon Distinguished Service Professor of Pharmacology and Chairman of Department.* (**1,** 1933; **2,** 1927; **3,** 1925)

Gelfan, Samuel, Ph.D. Yale University School

of Medicine, 333 Cedar St., New Haven 11, Conn. *Assistant Professor of Physiology.* (**1**, 1930)

Gellhorn, Alfred, M.D. Dept. of Pharmacology, College of Physicians and Surgeons, 630 West 168th St., New York, 32, N. Y. *Associate Professor of Pharmacology.* (**3**, 1946)

Gellhorn, Ernst, M.D., Ph.D. Room 116, Medical Sciences, University of Minnesota, Minneapolis. *Professor of Neurophysiology.* (**1**, 1930)

Gemmill, Chalmers L., M.D. Department of Pharmacology, Medical School, University of Virginia, Charlottesville. *Professor of Pharmacology.* (**1**, 1928; **2**, 1935; **3**, 1946)

Gerard, R. W., Ph.D., M.D. University of Chicago, Chicago, Ill. *Professor of Physiology.* (**1**, 1927)

Gersh, Isadore, Ph.D. College of Medicine, University of Illinois, 1853 Polk St., Chicago 12, Ill. *Associate Professor of Pathology.* (**4**, 1947)

Gerstenberger, Henry John, M.D. Western Reserve University, Cleveland, O. *Professor Emeritus of Pediatrics, School of Medicine, Western Reserve University; Director of Pediatrics, Babies and Children's Hospital.* (**5**, 1938)

Gesell, Robert, M.D. University of Michigan, Ann Arbor. *Professor of Physiology.* (**1**, 1913)

Gettler, Alexander O., A.M., Ph.D., LL.D. New York University, 29 Washington Place, New York City. *Professor of Chemistry and Toxicology; Toxicologist to Chief Medical Examiner's Office.* (**2**, 1916)

Gey, George Otto, M.D. Johns Hopkins University, Baltimore, Md. *Instructor in Surgery.* (**1**, 1940)

Gibbard, J., M.Sc. Laboratory of Hygiene, Dept. of Nat. Health and Welfare, Ottowa, Canada. *Chief, Laboratory of Hygiene.* (**6**, 1946)

Gibbs, Frederick Andrews, M.D. 720 N. Michigan Ave., Suite 610, Chicago, Ill. (**1**, 1935)

Gibbs, Owen Stanley, M.B., Ch.B. (Edin.), M.D. P. O. Box 166, Whitehaven, Tenn. (**1**, 1935; **3**, 1930)

Gibson, Robert Banks, Ph.D. University Hospital, Iowa City, Iowa. *Associate Professor of Biochemistry, State University of Iowa.* (**1**, 1907; **2**, 1906)

Gies, William John, Ph.D., Sc.D., LL.D., F.A.C.D. 632 W. 168th St., New York City. *Professor of Biological Chemistry, Columbia University.* (**1R**, 1898; **2**, 1906; **3R**, 1909)

Gilbert, Ruth, A.M., M.D. R.F.D. 2, Altamont, N. Y. *Asst. Director, Diagnostic Labs., New York State Department of Health, Albany.* (**6**, 1920)

Gilman, Alfred, Ph.D. College of Physicians and Surgeons, 630 West 168th St., New York 32, N. Y. *Professor of Pharmacology.* (**1**, 1935; **3**, 1934)

Gilson, Arthur S., Jr., A.M., Ph.D. Washington University Medical School, St. Louis, Mo. *Associate Professor of Physiology.* (**1**, 1927)

Givens, Maurice H., Ph.D. Box 5116, Biltmore, North Carolina. (**1**, 1917; **2**, 1915)

Gjessing, Erland C., Ph.D. Univ. of Virginia, Charlottesville, Va. *Asst. Professor of Biochemistry.* (**2**, 1948)

Glass, Howard G., M.S., Ph.D. Department of Pharmacology, Marquette University School of Medicine, 561 N. 15th Street, Milwaukee 3, Wis. *Instructor.* (**3**, 1947)

Glazko, Anthony J., Ph.D. Detroit 32, Mich. Research Laboratories, Parke, Davis & Co. *Research Biochemist.* (**1**, 1942)

Glick, David, Ph.D. University of Minnesota, Minneapolis, Minn. *Assoc. Prof. of Physiological Chemistry.* (**2**, 1936)

Glickman, Nathaniel, M.S. Department of Medicine, University of Illinois College of Medicine, 1853 W. Polk St., Chicago 12, Ill. *Asst. Prof. of Med. and Res. Physiologist.* (**1**, 1947)

Goebel, Walther F., Ph.D. The Rockefeller Institute for Medical Research, 66th St. and York Ave., New York City. *Member.* (**2**, 1929; **6**, 1937)

Goerner, Alfred, Ph.G., Pharm.D., M.D. 366 Sterling Place, Brooklyn, N. Y. *Assistant Clinical Professor of Medicine, Long Island College of Medicine.* (**2**, 1939)

Goettsch, Marianne, Ph.D. School of Tropical Medicine of Columbia University, San Juan, Puerto Rico. *Assistant Professor of Chemistry.* (**2**, 1933; **5**, 1941)

Goetzl, Franz R., Ph.D., M.D. Department of Medical Research, The Permanente Foundation, Oakland 11, Calif. *Director.* (**1**, 1947)

Gold, Harry, M.D. Cornell University Medical College, New York City. *Prof. of Clin. Pharmacology; Attending Physician-in-Charge, Cardiovascular Research Unit, Beth Israel Hospital; Attending Cardiologist, Hospital for Joint Diseases; Visiting Cardiologist, Seaview Hospital, New York City.* (**3**, 1927)

Goldblatt, Harry, M.D. Director Institute for Medical Research, Cedars of Lebanon Hospital, Los Angeles, Calif. (**1**, 1945; **4**, 1927)

Golden, Alfred, M.D. University of Tennessee, Memphis, Tenn. *Associate Professor of Pathology and Bacteriology.* (**4**, 1947)

Goldfarb, Walter, M.D. 25 East 86th St., New York City. (**1**, 1938)

Goldforb, A. J., Ph.D. College of the City of New York, New York City. *Professor of Biology.* (**1**, 1930)

Goldie, Horace, M.D., D.T.M. Chemotherapy Section, National Cancer Institute, Bethesda, Md. (**6**, 1943)

Goldring, William, M.D. New York University College of Medicine, 477 First Ave., New York

City. *Associate Professor of Medicine.* (**1,** 1939)

Goldschmidt, Samuel, Ph.D. University of Pennsylvania Medical School, Philadelphia. *Associate Professor of Physiology.* (**1,** 1919; **2,** 1915)

Goldsmith, Grace A. M.D. Tulane University of Louisiana, New Orleans. *Assistant Professor of Medicine.* (**5,** 1943)

Goldstein, Avram, M.D. Harvard Medical School, Boston, Mass. *Instructor in Pharmacology.* (**3,** 1948)

Golub, Orville Joseph, M.S., Ph.D. Bio-Service Labs., Inc., 10717 Venice Blvd., Los Angeles 24, Calif. *Associate.* (**6,** 1944)

Gomori, George, M.D. Univ. of Chicago, Chicago, Ill. *Assoc. Professor of Medicine.* (**4,** 1948)

Goodman, Louis Sanford, M.S., M.D. University of Utah School of Medicine, Salt Lake City. *Professor of Pharmacology and Chairman of the Department of Pharmacology.* (**1,** 1946; **3,** 1937)

Goodner, Kenneth, Ph.D. Jefferson Medical College, Philadelphia, Pa. *Professor of Bacteriology.* (**6,** 1932)

Goodpasture, Ernest William, M.D. Vanderbilt University Medical School, Nashville, Tenn. *Professor of Pathology and Dean.* (**4,** 1923)

Gordon, Albert S., M.S., Ph.D. Washington Square College of Arts and Sciences, New York University, New York City. *Associate Professor of Biology.* (**1,** 1942)

Gordon, Francis B., M.D. University of Chicago 5724 Ellis Avenue, Chicago, Ill. *Associate Professor of Bacteriology.* (**4,** 1947)

Gordon, Harry H., M.D. 4200 E. 9th Ave., Denver, Colo. *Professor of Pediatrics, University of Colorado Medical School; Pediatrician in Chief, Colorado General Hospital.* (**5,** 1940)

Gordon, Irving, M.D. Division of Laboratories & Research, N. Y. State Dept. of Health, New Scotland Ave., Albany 1, N. Y. *Assoc. Medical Bacteriologist; Assoc. Professor of Medicine and of Bacteriology, Albany Medical College.* (**6,** 1943)

Gordon, William G., M.A., Ph.D. Eastern Regional Research Laboratory, U. S. Department of Agriculture, Philadelphia 18, Pa. *Senior Chemist.* (**2,** 1939)

Gortner, Ross Aiken, Jr., M.S., Ph.D. Shanklin Laboratory, Wesleyan University, Middletown, Conn. *Associate Professor of Biochemistry.* (**5,** 1947)

Gortner, Willis A., Ph.D. Pineapple Research Institute of Hawaii, Honolulu, T. H., *Head, Dept. of Chemistry.* (**2,** 1947)

Goss, Harold, Ph.D. University of California College of Agriculture, Davis. *Professor of Animal Husbandry.* (**2,** 1936; **5,** 1933)

Goth, Andres, M.D. Southwestern Medical College, 2211 Oak Lawn Avenue, Dallas 4, Tex. *Associate Professor of Pharmacology.* (**3,** 1947)

Gottschall, Russell Y., M.S., Ph.D. Bureau of Laboratories, Michigan Department of Health, Lansing. *Bacteriologist.* (**6,** 1939)

Goudsmit, Arnoldus, Jr., M.D., Ph.D. 4141 Windsor Rd., Youngstown 7, Ohio. (**1,** 1940)

Govier, William M., M.D. The Upjohn Co., Kalamazoo 99, Mich. *Research Division.* (**3,** 1944)

Grabfield, G. Philip, M.D. 27 Forest St., Milton, Mass. *Associate in Medicine and Pharmacology, Harvard Medical School. (At present on leave of absence; Col. M.C., U. S. A.)* (**3,** 1923)

Grady, Hugh G., M.D. Army Institute of Pathology, Washington, D. C. *Pathologist.* (**4,** 1940)

Graef, Irving, M.D. New York University College of Medicine, New York City. *Assistant Professor of Clin. Medicine.* (**4,** 1941)

Graham, Claire E., Ph.D. Wilson Laboratories, 4221 S. Western Ave., Chicago, Ill. *Director of Research.* (**2,** 1948)

Graham, Clarence H., Ph.D. Columbia University, New York 27, N. Y. *Professor of Psychology.* (**1,** 1933)

Graham, Helen Tredway, A.M., Ph.D. Euclid Ave. and Kingshighway, St. Louis, Mo. *Associate Professor of Pharmacology, Washington University School of Medicine.* (**1,** 1933; **3,** 1931)

Grant, R. Lorimer, M.S., Ph.D. Division of Pharmacology, Food and Drug Administration, Federal Security Agency, Washington 25, D. C. *Pharmacologist.* (**2,** 1938)

Graubard, Mark, M.A., Ph.D. Dept. of Physiology, University of Minnesota, Minneapolis. (**1,** 1940)

Grauer, Robert C., M.D. Allegheny General Hospital, Pittsburgh, Pa. *Director of Research, and Head of Dept. of Endocrinology and Metabolism, William H. Singer Memorial Research Laboratory; Assistant Professor of Medicine, School of Medicine, University of Pittsburgh.* (**4,** 1941)

Gray, John S., M.S., Ph.D., M.D. Northwestern Univ. Medical School, 303 E. Chicago Ave., Chicago 11, Ill. *Professor of Physiology and Chairman of Department.* (**1,** 1937)

Gray, M. Geneva, M.A., Ph.D. Laboratories of Arthur D. Little, Inc., Cambridge, Mass. *Director Pharmacological Research.* (**3,** 1946)

Gray, Samuel H., M.D. The Jewish Hospital of St. Louis, Kingshighway and Forest Park Blvd., St. Louis, Mo. *Director of Laboratories, Jewish Hospital; Associate Professor of Pathology, Washington University.* (**4,** 1939)

Gray, Stephen W., Ph.D. Emory Univ. Sch. of

Med., Emory Univ., Ga. *Asst. Professor of Anatomy.* (**1**, 1948)

Graybiel, Ashton, M.D. U. S. Naval Sch. of Aviation Med. and Res., Naval Air Station, Pensacola, Fla. *Coordinator of Research.* (**1**, 1948)

Greaves, J. D., M.S., Ph.D. Western Regional Research Laby., U. S. Dept. of Agriculture, 800 Buchanan St., Albany 6, Calif. *Biochemist.* (**2**, 1938)

Greaves, Joseph E., Ph.D. 3211 S.W. 10 Ave., Portland, Ore. (**2**, 1940)

Greeley, Paul O., A.M., Ph.D., M.D. University of Southern California Medical School, University Park, Los Angeles. *Dept. of Aviation Medicine.* (**1**, 1940)

Green, Arda Alden, M.D. Cleveland Clinic, Euclid and E. 93rd St., Cleveland 6, O. *Research Division.* (**2**, 1932)

Green, Daniel M., M.D., M.S. Univ. of Washington Sch. of Med., Seattle, Wash. *Assoc. Prof. of Medicine.* (**1**, 1948; **3**, 1942)

Green, David E., Ph.D. University of Wisconsin, Enzyme Institute, Madison, Wis. *Prof. of Enzyme Chemistry.* (**2**, 1941)

Green, Harold David, M.D. Bowman Gray School of Medicine, Wake Forest College, Winston-Salem 7, N. C. *Professor of Physiology and Pharmacology.* (**1**, 1936; **3**, 1945)

Greenberg, David Morris, Ph.D. University of California, Berkeley. *Professor and Chairman of Division of Biochemistry.* (**2**, 1927; **5**, 1946)

Greenberg, Louis D., Ph.D. Univ. of Calif. Medical Center, 3rd and Parnassus Aves., San Francisco 22, Calif. *Assistant Professor of Pathology, Univ. of California Med. School.* (**2**, 1946)

Greene, Carl Hartley, Ph.D., M.D. 140 E. 54th St., New York City. *Associate Professor of Clinical Medicine, New York Post-Graduate Medical School of Columbia University; Clinical Professor of Medicine, Long Island College of Medicine.* (**1**, 1921; **2**, 1922; **4**, 1924)

Greene, Harry S. N., M.D., C.M. Department of Pathology, Yale University School of Medicine, New Haven, Conn. *Professor of Pathology.* (**4**, 1937)

Greene, James Alexander, M.D. Baylor University, College of Medicine, Buffalo Drive., Houston, Texas. *Professor and Chairman of the Department of Internal Medicine and Dean of the Clinical Faculty.* (**1**, 1939)

Greene, Ronald R., M.S., M.D. Northwestern University Medical School, 303 E. Chicago Ave., Chicago, Ill. *Instructor in Physiology; Instructor in Obstetrics and Gynecology.* (**1**, 1941)

Greengard, Harry, Ph.D., M.D. Northwestern University Medical School, 303 E. Chicago Ave., Chicago, Ill. *Assistant Professor of Physiology.* (**1**, 1939)

Greenstein, Jesse P., Ph.D. National Cancer Institute, Bethesda, Md. *Chief Biochemist.* (**2**, 1935)

Greenwald, Isidor, Ph.D. 477 First Ave., New York City. *Associate Professor of Chemistry, New York University College of Medicine.* (**2**, 1912; **5**, 1933)

Greep, Roy O., Ph.D. Harvard School of Dental Medicine, 188 Longwood Ave., Boston 15, Mass. *Assistant Professor of Dental Science (Dental Medicine), Teaching Fellow in Anatomy (Medical School).* (**1**, 1940)

Greer, C. M., M.S. Vanderbilt University School of Medicine, Nashville, Tenn. *Research Associate in Pharmacology.* (**3**, 1938)

Gregersen, Magnus I., A.M., Ph.D. College of Physicians and Surgeons, Columbia University, 630 W. 168th St., New York City. *Professor of Physiology.* (**1**, 1933)

Gregg, Donald Eaton, M.S., Ph.D., M.D. Armored Medical Research Laboratory, Fort Knox, Ky. *Chief Research Physician.* (**1**, 1933)

Gregory, John E. Hahnemann Medical College, Philadelphia, Pa. *Professor of Pathology.* (**6**, 1948)

Gregory, Raymond L., Ph.D., M.D. University of Texas School of Medicine, 1419—24th St., Galveston. *Professor of Medicine.* (**1**, 1945)

Greig, Margaret E., B.A., M.A., Ph.D. Vanderbilt Univ. School of Medicine, Nashville 4, Tenn. *Assistant Professor in Pharmacology.* (**3**, 1946)

Greisheimer, Esther M., Ph.D., M.D. Temple University Medical School, 3400 N. Broad St., Philadelphia, Pa. *Professor of Physiology.* (**1**, 1925)

Grenell, Robert G., Ph.D. University of Pennsylvania Eldridge Reeves Foundation, Philadelphia, Pa. *Senior Fellow, USPHS, Natl. Inst. of Health.* (**1**, 1945)

Griffin, Angus, Ph.D. Department of Bacteriology, George Washington University School of Medicine, 1335 H St., N.W., Washington, D. C. *Associate Professor of Bacteriology.* (**6**, 1940)

Griffith, Fred R., Jr., M.A., Ph.D. 24 High St., Buffalo, N. Y. *Professor of Physiology, University of Buffalo Medical School.* (**1**, 1923; **5**, 1933)

Griffith, Wendell H., M.S., Ph.D. University of Texas Medical School, Galveston, Texas. *Prof. and Chr., Dept. of Biochemistry and Nutrition.* (**2**, 1923; **5**, 1934)

Grimson, Keith S., M.D. Duke University School of Medicine, Durham, N. C. *Associate Professor of Surgery.* (**1**, 1943)

Grindlay, John H., M.D. Mayo Clinic, Rochester, Minn. (**1**, 1945)

Groat, Richard A., Ph.D. Bowman Gray School of

Medicine, Winston-Salem 7, N. C. *Assoc. Professor of Anatomy.* (**1**, 1945)

Groat, William A., M.D. 713 E. Genesee St., Syracuse, N. Y. *Professor of Clinical Pathology, Syracuse University College of Medicine.* (**6**, 1917)

Grodins, Fred S., Ph.D., M.D. Northwestern University Medical School, 303 E. Chicago Ave., Chicago 11, Ill. *Associate Professor of Physiology.* (**1**, 1945)

Grollman, Arthur, M.D., Ph.D. Southwestern Medical College, 2211 Oak Lawn Ave., Dallas, Texas. *Professor of Medicine and Chairman of the Department of Experimental Medicine; Professor of Pharmacology and Chairman of the Department of Physiology and Pharmacology.* (**1**, 1928; **3**, 1933)

Gross, Erwin G., Ph.D., M.D. Medical Laboratories, State University of Iowa, Iowa City. *Professor of Pharmacology.* (**1**, 1927; **2**, 1923; **3**, 1927)

Gross, Robert E., M.D. Harvard Medical School, 300 Longwood Ave., Boston, Mass. *Ladd Professor of Children's Surgery.* (**4**, 1940)

Grossman, Morton Irvin, M.S., Ph.D., M.D., University of Illinois College of Medicine, Chicago 12. *Assoc. Professor of Physiology.* (**1**, 1946)

Groupé, Vincent, Ph.D Univ. of Connecticut, Storrs Agric. Exper. Station, Dept. of Animal Diseases. Storrs, Conn. *Assoc. Professor in Animal Diseases.* (**6**, 1946)

Gruber, Charles M., A.M., M.D., Ph.D. Jefferson Medical College, 1025 Walnut St., Philadelphia, Pa. *Professor of Pharmacology.* (**1**, 1914; **3**, 1919)

Gruber, Charles M., Jr., M.D. Jefferson Medical College Hospital, Philadelphia, Pa. *Research Fellow in Hematology.* (**3**, 1948)

Gruhzit, Oswald M., M.D. Research Laboratories, Parke, Davis & Co., Detroit, Mich. *Research in Pathology and Pharmacology.* (**4**, 1928)

Grundfest, Harry, A.M., Ph.D. Columbia Univ. P. and S., 630 West 168th St., New York 32, N. Y. *Associate in Neurology.* (**1**, 1932)

Gudernatsch, F., Ph.D. 41 Fifth Avenue, New York 3, N. Y. (**1**, 1930)

Guerra, Francisco, M.Sc., Med. Major, B.S. and Litt. M.D. Facultad de Medicina, Universidad Nacional de Mexico, Mexico D.F. *Professor of Pharmacology.* (**3**, 1947)

Guerrant, N. B., M.S., Ph.D. Pennsylvania State College, State College. *Professor of Biological Chemistry.* (**2**, 1934; **5**, 1933)

Guest, George Martin, M.S., M.D. Children's Hospital, Cincinnati, Ohio. *Prof. of Pediatrics, Univ. of Cincinnati College of Medicine and Graduate School.* (**2**, 1933)

Guest, Maurice Mason, Ph.D. Dept. of Physiology, Wayne Univ., College of Medicine, Detroit 26, Mich. *Associate Professor of Physiology.* (**1**, 1946)

Gulick, Addison, A.M., Ph.D. 308 Westmount Ave., Columbia, Mo. *Professor of Physiological Chemistry, University of Missouri.* (**1**, 1915; **5**, 1933)

Gunn, Francis D., M.D., Ph.D. University of Utah, School of Medicine, Salt Lake City. *Professor and Head of Dept. of Pathology.* (**4**, 1938)

Gunsalus, Irwin C., Ph.D. Indiana University, Bloomington. *Professor of Bacteriology.* (**2**, 1946)

Gurin, Samuel, Ph.D. University of Pennsylvania School of Medicine, Philadelphia. *Professor of Physiological Chemistry.* (**2**, 1938)

Gustavson, R. G., Ph.D. University of Nebraska, Lincoln. *Chancellor.* (**2**, 1927)

Gustus, Edwin L., Ph.D. Bjorksten Research Lab., 185 N. Wabash Ave., Chicago, Ill. *Vice President.* (**2**, 1934)

Guthrie, Charles Claude, M.D., Ph.D., Sc.D. University of Pittsburgh Medical School, Pittsburgh, Pa. *Professor of Physiology and Pharmacology.* (**1**, 1905; **3**, 1909)

Gutierrez-Noriega, Carlos, M.D. Facultad de Medicina, Av. Grau. Lima, Peru. *Professor of Pharmacology.* (**3**, 1948)

Gutman, Alexander B., M.D. Columbia Research Service, Welfare Island, New York 17. *Director.* (**2**, 1947)

Guttman, Rita M., M.A., Ph.D. Brooklyn College, Brooklyn, N. Y. *Instructor in Physiology.* (**1**, 1946)

György, Paul, M.D. University Hospital, Philadelphia, Pa. *Prof. of Clin. Pediatrics.* (**2**, 1938; **5**, 1939)

Haag, Harvey B., M.D. Medical College of Virginia, Richmond. *Professor of Pharmacology.* (**3**, 1934)

Haag, J. R., Ph.D. Oregon Agricultural Experiment Station, Corvallis. *Chemist.* (**2**, 1947; **5**, 1941)

Haas, Erwin, Ph.D. Institute for Medical Research, Cedars of Lebanon Hospital, Los Angeles 27, Calif. *Research Associate.* (**2**, 1946)

Haberman, Sol, M.A., Ph.D. Wm. Buchanan Blood, Plasma and Serum Center, Baylor Hospital, Dallas, Texas. *Chief of Bacteriology and Serology Services.* (**6**, 1944)

Hadidian, Zareh, Ph.D. Tufts College, Medical School, Boston, Mass. (**1**, 1945)

Hadley, Philip Bardwell, Ph.D. Institute of Pathology, Western Pennsylvania Hospital, Pittsburgh. *Chief of Bacteriological Service and Research Bacteriologist.* (**4**, 1927)

Hafkesbring, H. Roberta, Ph.D. Woman's Medi-

cal College of Pennsylvania, East Falls, Philadelphia. *Professor of Physiology.* (**1**, 1931)

Haggard, Howard W., M.D. 4 Hillhouse Ave., New Haven, Conn. *Director of the Laboratory of Applied Physiology, Yale University.* (**1**, 1919; **2**, 1920)

Hahn, Paul F., Ph.D. Meharry Medical College, Nashville, Tenn. *Director of Cancer Research Laboratories.* (**1**, 1946; **4**, 1939)

Haig, Charles, M.A., Ph.D. New York Medical College, Fifth Ave. at 105th St., New York City. *Associate Professor of Physiology and Biochemistry.* (**1**, 1942)

Haist, Reginald E., M.A., M.D., Ph.D. University of Toronto, Toronto, Ontario, Canada. *Associate Professor of Physiology.* (**1**, 1943)

Halbert, Seymour P., M.D. School of Public Health, University of North Carolina, Chapel Hill, N. C. *Assistant Professor, Experimental Medicine.* (**6**, 1947)

Haldi, John, A.M., Ph.D. Emory University, Emory University, Ga. (**1**, 1928)

Hale, Wm. M., M.D. The State University of Iowa College of Medicine, Iowa City. *Professor and Head of Dept. of Bacteriology.* (**4**, 1941; **6**, 1935)

Hall, F. G., M.A., Ph.D. Duke Univ. School of Medicine, Dept. of Physiology and Pharmacology, Durham, N. C. (**1**, 1937)

Hall, George Edward, M.D., Ph.D. University of Western Ontario, Ottaway Ave. and Waterloo St., London, Canada. *Dean of the Faculty of Medicine.* (**1**, 1938)

Hall, Victor E., M.A., M.D. Department of Physiology, Stanford University, Calif. *Professor of Physiology.* (**1**, 1934)

Hall, W. Knowlton, Ph.D. Univ. of Georgia School of Medicine, Augusta, Ga. *Asso. Professor of Biochemistry.* (**2**, 1948)

Hallenbeck, George Aaron, Ph.D., M.D. Mayo Clinic, Rochester, Minn. *Research Associate.* (**1**, 1946)

Halliday, Nellie, Ph.D. Laguna Honda Home, Laboratory of Experimental Oncology, San Francisco, Calif. (**5**, 1933)

Halpert, Béla, M.D. University of Oklahoma School of Medicine, Oklahoma City. *Director of Laboratories and Professor of Clinical Pathology.* (**4**, 1936)

Halstead, Ward C., M.A., Ph.D. Dept. of Medicine, University of Chicago, Chicago, Ill. *Associate Professor Experimental Psychology, Division of Psychiatry.* (**1**, 1942)

Ham, Arthur W., M.B. University of Toronto, Toronto 5, Canada. *Professor of Anatomy, in charge of Histology.* (**4**, 1939)

Hambourger, Walter E., Ph.D., M.D. G. D. Searle & Co., P. O. Box 5110, Chicago, Ill. *Chief Pharmacologist.* (**3**, 1934)

Hamilton, Bengt L. K., M.D. U. S. Marine Hospital, Staten Island 4, N. Y. *Medical Director, U. S. Public Health Service.* (**2**, 1925)

Hamilton, James B., Ph.D. Department of Anatomy, Long Island College of Med., 350 Henry Street, Brooklyn 2, N. Y. (**1**, 1938)

Hamilton, Paul B., M.A., Ph.D. Alfred I. DuPont Institute, Nemours Foundation, Rockland Rd., Wilmington 99, Del. *Chief of Biochemistry.* (**2**, 1946)

Hamilton, Tom S., M.S., Ph.D. University of Illinois, Urbana. *Professor and Chief in Animal Nutrition.* (**2**, 1937; **5**, 1938).

Hamilton, W. F., Ph.D. University of Georgia School of Medicine, Augusta. *Professor of Physiology and Pharmacology.* (**1**, 1924)

Hammett, Frederick S., M.S., A.M., Ph.D. 493 Commercial St., Provincetown, Mass. (**1R**, 1920; **2**, 1917)

Hammon, William McD., M.D., M.P.H., Ph.D. University of California School of Public Health, San Francisco, Calif. *Professor of Epidemiology; George Williams Hooper Foundation, Professor of Epidemiology.* (**4**, 1944)

Hampel, C. W., Ph.D. New York University College of Medicine, New York, N. Y. *Visiting Professor of Physiology and Anatomy.* (**1**, 1936).

Hamre, Dorothy, Ph.D. Squibb Institute for Medical Research, New Brunswick, N. J. *Research Associate.* (**6**, 1948)

Hand, David B., Ph.D. New York State Agricultural Experiment Station, Geneva, New York. *Head, Division of Food Science and Technology and Prof. of Biochemistry.* (**2**, 1947)

Handler, Philip, M.S., Ph.D. Duke University School of Medicine, Durham, N. C. *Associate Professor of Biochemistry and Nutrition.* (**2**, 1944; **5**, 1946)

Handley, Carroll A., Ph.D. Baylor Univ. College of Medicine, Houston 1, Texas. *Professor of Physiology and Pharmacology.* (**3**, 1942)

Haney, Hance F., Ph.D., M.D. University of Oregon Medical School, Portland. *Assistant Professor of Medicine.* (**1**, 1939)

Hanger, Franklin, M.D. College of Physicians and Surgeons, 630 W. 168th St., New York City. *Associate Professor of Medicine, Columbia University.* (**6**, 1930)

Hanke, Martin E., Ph.D. University of Chicago, Chicago, Ill. *Associate Professor of Biochemistry.* (**2**, 1925)

Hanke, Milton Theo., Ph.D. 7550 S. Green St., Chicago, Ill. *Research Consultant, Biochemistry and Nutrition.* (**2**, 1919)

Hanks, John H., Ph.D. Harvard University Medical School, Boston, Mass. *Dept. of Bacteriology; Bacteriologist of the Leonard Wood Memorial.* (**6**, 1935)

Hansen, Arild E., M.D. University of Texas Medical School, Galveston. *Professor of Pediatrics and Chairman of the Department; Director of the University of Texas Child Health Program.* (**4,** 1941; **5,** 1942)

Hanzal, Ramon F., M.A., Ph.D. Killian Research Laboratories, 49 W. 45th St., New York City. *Biochemist.* (**2,** 1935)

Hanzlik, Paul J., M.D. School of Medicine, Stanford University, Sacramento and Webster Sts., San Francisco, Calif. *Professor of Pharmacology.* (**1,** 1912; **2,** 1919; **3,** 1912)

Hardy, James Daniel, A.M., Ph.D. Russell Sage Institute of Pathology, 525 E. 68th St., New York City. *Research Associate.* (**1,** 1939)

Hardy, Mary, D.Sc. The Brearley School, 610 E. 83rd St., New York City. *Teacher of Science.* (**1,** 1933)

Hare, Kendrick, Ph.D. 1300 York Ave., New York, N. Y. (**1,** 1938)

Harford, Carl G., M.D. Washington Univ. Sch. of Med., St. Louis, Mo. *Asst. Professor of Med. and Preventive Med.* (**6,** 1948)

Harger, R. N., M.A., Ph.D. Indiana University School of Medicine, Indianapolis. *Professor of Biochemistry and Toxicology.* (**2,** 1938)

Harkins, Henry Nelson, M.S., Ph.D., M.D. Johns Hopkins Hospital, Baltimore, Md. *Associate Professor of Surgery, Johns Hopkins University Medical School.* (**1,** 1942)

Harmon, Paul M., A.M., Ph.D. Indiana University, Bloomington. *Professor of Physiology.* (**1,** 1930)

Harne, O. G. University of Maryland School of Medicine, Baltimore. *Associate Professor of Histology.* (**1,** 1935)

Harned, Ben King, M.S., Ph.D. Lederle Laboratories, Pearl River, N. Y. *Assoc. Director, Pharmacology Research.* (**2,** 1931; **3,** 1941)

Harris, Albert H., M.D. N. Y. State Dept. of Health, Division of Laboratories and Research, New Scotland Ave., Albany 1, N. Y. *Asst. Director for Local Labs.* (**6,** 1937)

Harris, Albert Sidney, Ph.D. College of Medicine, Baylor University, Houston 5, Texas. (**1,** 1939)

Harris, Milton, Ph.D. Harris Research Laboratories, 1246 Taylor St., N.W., Washington 11, D. C. *President.* (**2,** 1939)

Harris, Paul N., M.D. The Eli Lilly and Company, Indianapolis, Ind. *Pathologist, Division of Pharmacology.* (**3,** 1948)

Harris, Philip L., M.S., Ph.D. Distillation Products, Inc., 755 Ridge Road W., Rochester 13, N. Y. *Head of Biochemistry Research Department; Associate in Physiology, Univ. of Rochester Sch. of Med. and Dentistry.* (**5,** 1945; **2,** 1946)

Harris, Robert S. Massachusetts Institute of Technology, Cambridge. *Professor of Nutritional Biochemistry.* (**5,** 1941)

Harris, S. C., M.S., Ph.D. Department of Physiology and Pharmacology, Northwestern University, Chicago, Ill. *Chairman of Department.* (**1,** 1947)

Harris, T. N., M.D. Children's Hospital of Philadelphia, Philadelphia, Pa. *Associate in Pediatrics, Univ. of Pennsylvania.* (**6,** 1946)

Harris, William H., M.D. Tulane University School of Medicine, New Orleans, La. *Assistant Professor of Pathology and Bacteriology.* (**4,** 1925)

Harrison, Frank, M.S., Ph.D. University of Tennessee College of Medicine, Memphis. *Professor and Chief, Division of Anatomy.* (**1,** 1941)

Harrison, James A., Ph.D. Temple Univ., Philadelphia 22, Pa. *Professor of Biology.* (**6,** 1946)

Harrison, Ross Granville, M.D., Ph.D., Sc.D. Osborn Zoological Laboratory, New Haven, Conn. *Sterling Professor of Biology, Emeritus, Yale University; Chairman of the National Research Council; Member of the National Academy of Sciences.* (**1,** 1906)

Harrison, R. Wendell, M.D., Ph.D. Ellis Ave. at 58th St., Chicago 37, Ill. *Professor of Bacteriology; Dean of Faculties and Vice President, Univ. of Chicago.* (**6,** 1934)

Harrow, Benjamin, M.A., Ph.D. College of the City of New York, Convent Ave. and 139th St., New York City. *Professor of Chemistry.* (**2,** 1927)

Hart, E. B., B.S. University of Wisconsin Agricultural College, Madison, Wis. *Professor of Biochemistry, University of Wisconsin.* (**2,** 1910; **5,** 1933)

Hart, E. Ross, M.S., Ph.D. Jefferson Medical College, 1025 Walnut St., Philadelphia, Pa. *Assistant Professor of Pharmacology.* (**3,** 1944)

Hart, William M., Ph.D. Temple Medical School, Broad and Ontario Sts., Philadelphia 40, Pa. *Assistant Professor of Physiological Chemistry.* (**1,** 1945)

Hartline, H. K., M.D. Johnson Foundation University of Pennsylvania Hospital, Philadelphia 4, Pa., *Assistant Professor of Biophysics.* (**1,** 1929)

Hartman, Carl G., A.M., Ph.D. Department of Zoology, University of Illinois, Urbana. *Professor of Zoology and Head of the Department; Member, National Academy of Sciences.* (**1,** 1921)

Hartman, Frank Alexander, A.M., Ph.D. Department of Physiology, Ohio State University, Columbus. *Professor of Physiology and Chairman of the Department.* (**1,** 1916)

Hartman, F. W., M.D. Henry Ford Hospital, Detroit, Mich. *Pathologist.* (**4,** 1927)

Hartmann, Alexis F., M.S., M.D. 500 S. Kingshighway, St. Louis, Mo. *Professor of Pediatrics,*

Washington University School of Medicine. (2, 1932)

Harvey, A. McGhee, A.B., M.D. Johns Hopkins Hospital, Baltimore 5, Md. *Professor of Medicine, Johns Hopkins Univ. Medical School; Physician-in-Chief, Johns Hopkins Hospital.* (1, 1946; 3, 1946)

Harvey, E. Newton, Ph.D. Guyot Hall, Princeton, N. J. *Henry Fairfield Osborn Professor of Biology, Princeton University; Member, National Academy of Sciences.* (1, 1914; 2, 1916)

Hass, George, M.D. Presbyterian Hospital of Chicago, Chicago, Ill. *Chairman, Dept. of Pathology;* University of Illinois, College of Medicine, Chicago. *Professor of Pathology.* (4, 1939)

Hassid, William Z., M.S., Ph.D. Division of Plant Nutrition, Univ. of California, Berkeley, Calif. *Professor of Plant Nutrition.* (2, 1946)

Hastings, A. Baird, Ph.D., Sc.D. Harvard Medical School, Boston, Mass. *Hamilton Kuhn Professor of Biological Chemistry; Member, National Academy of Sciences.* (1, 1927, 2, 1921; 5, 1940)

Hathaway, Milicent L., M.A., Ph.D. Bureau of Human Nutrition and Home Economics, (Food and Nutrition Division), Agricultural Research Administration, Washington 25, D. C. (5, 1945)

Hauck, Hazel M., Ph.D. Cornell University, Ithaca, N. Y. *Professor of Home Economics.* (5, 1941)

Hauge, Siegfred M., Ph.D. Purdue University Agricultural Experiment Station, Lafayette, Ind. *Research Associate in Biochemistry.* (5, 1933)

Haurowitz, Felix, M.D., D.Sc. Indiana Univ., Bloomington, Ind. *Professor of Biochemistry.* (6, 1948)

Haury, Victor G., M.B., M.D. Box 206, Wellsville, Kansas. (3, 1939)

Haven, Frances L., M.A., Ph.D. University of Rochester School of Medicine and Dentistry, 260 Crittenden Blvd., Rochester, N. Y. *Associate in Biochemistry.* (2, 1941)

Hawk, Philip B., M.S., Ph.D. Food, Drug and Cosmetic Consultants, 30 Rockefeller Plaza, Room 4631, New York City. *President.* (1, 1903; 2, 1906)

Hawkins, J. E., Jr., B.A. (Oxon), Ph.D. Merck Institute for Therapeutic Research, Rahway, N. J. *Physiologist.* (1, 1943)

Hawkins, William Bruce, M.D. University of Rochester School of Medicine and Dentistry, 260 Crittenden Blvd., Rochester, N. Y. *Associate Professor of Pathology.* (4, 1933)

Hawley, Estelle E., Ph.D. Medical School, University of Rochester, Rochester, N. Y. *Research Fellow in Pediatrics.* (5, 1935)

Hawn, Clinton van Zandt, M.D. Mary Imogene Bassett Hospital, Cooperstown, N. Y. *Pathologist; Director of Otsego County Laboratories.* (4, 1948)

Hay, Eleanor Clarke, Ph.D. 7 Greenhill Rd., Madison, N. J. (1, 1945)

Hayman, J. M., Jr., M.D. Lakeside Hospital, Cleveland, O. *Professor of Clinical Medicine and Therapeutics, Western Reserve University.* (1, 1928; 3, 1932)

Haynes, Florence W., M.A., Ph.D. Harvard Medical School, 25 Shattuck St., Boston, Mass. *Research Associate in Medicine.* (1, 1937)

Hays, Edwin Everett, M.S., Ph.D. The Armour Laboratories, Chicago, Ill. *Director of Biochemical Research.* (2, 1946)

Haythorn, Samuel R., M.D. Allegheny General Hospital, 320 E. North Ave., Pittsburgh, Pa. *Director of William H. Singer Memorial Laboratory.* (4, 1925)

Haywood, Charlotte, A.M., Ph.D. Mount Holyoke College, South Hadley, Mass. *Professor of Physiology.* (1, 1939)

Hazen, Elizabeth L., M.A., Ph.D. New York State Department of Health Laboratories, 339 E. 25th St., New York City. *Senior Bacteriologist.* (6, 1931)

Hazleton, Lloyd W., Ph.D. Box 333, Falls Church, Va. *Research Consultant.* (3, 1944)

Hechter, Oscar M., Ph.D. Worcester Foundation Exper. Biol., 222 Maple Ave., Shrewsbury, Mass. (1, 1945)

Hegnauer, Albert H., Ph.D. Boston University School of Medicine, Boston, Mass. *Associate Professor of Physiology.* (1, 1937)

Hegsted, David Mark, M.S., Ph.D. Harvard School of Public Health, Boston, Mass. *Professor of Nutrition.* (5, 1944)

Heidelberger, Michael, Ph.D. 620 W. 168th St., New York City. *Prof. of Immunochemistry, Columbia University; Chemist to the Presbyterian Hospital.* (2, 1927; 6, 1935)

Heilbrunn, Lewis Victor, Ph.D. University of Pennsylvania, Philadelphia. *Professor of Zoology.* (1, 1930)

Heim, J. William, Ph.D. 1 Yale Ave., Dayton 6, Ohio. Aero-Medical Laboratory, Army Air Forces, Wright Field. *Principal Research Physiologist; Assistant in Physiology, Harvard School of Public Health* (1, 1936)

Heinbecker, Peter, M.D. Washington University Medical School, St. Louis, Mo. *Associate Professor of Clinical Surgery.* (1, 1930)

Heinle, Robert W., M.D. Western Reserve Univ., Cleveland, Ohio. *Asst. Professor of Medicine.* (5, 1948)

Helff, O. M., M.S., Ph.D. New York University, University Heights, New York City. *Associate Professor of Biology.* (1, 1932)

Hellbaum, Arthur A., M.A., Ph.D., M.D. University of Oklahoma School of Medicine, Oklahoma City. *Professor of Pharmacology.* (**1,** 1937; **3,** 1945)

Hellebrandt, Frances Anna, M.D. Medical College of Virginia, Richmond. *Professor of Physical Medicine.* (**1,** 1933)

Heller, Carl G., M.D., Ph.D. University of Oregon Medical School, Portland 1. *Associate Professor of Physiology and Medicine.* (**1,** 1945)

Heller, Victor G., Ph.D. Oklahoma A. & M. College, Stillwater. *Head of the Department of Agricultural Chemistry Research.* (**2,** 1935; **5,** 1935)

Hellerman, Leslie, Ph.D. Johns Hopkins University School of Medicine, 710 N. Washington St., Baltimore 5, Md. *Associate Professor of Physiological Chemistry.* (**2,** 1935)

Helmer, Oscar Marvin, M.S., Ph.D. Indianapolis General Hospital, Indianapolis, Ind. *Head, Dept. of Physiological Chem.* (**2,** 1935)

Hemingway, Allan, Ph.D. 241 Cecil St., S.E., Minneapolis. *Associate Professor of Physiology, University of Minnesota.* (**1,** 1933)

Hendrix, Byron M., Ph.D. School of Medicine, University of Texas, Galveston. *Professor of Biochemistry.* (**2,** 1920)

Hendrix, James Paisley, B.S., M.A., M.D. Duke Hospital, Durham, N. C. *Associate in Medicine (in charge of Therapeutics); Associate in Physiology and Pharmacology, Duke University School of Medicine.* (**3,** 1942)

Hendry, Jessie L., M.A. Division of Laboratories and Research, New York State Department of Health, New Scotland Ave., Albany. *Senior Bacteriologist.* (**6,** 1938)

Henle, Werner, M.D. 1740 Bainbridge St., Philadelphia 46, Pa. *Associate Professor of Virology in Pediatrics.* (**6,** 1938)

Henry, James P., M.A., M.Sc., M.R.C.S. C.R.C.P. Aero Medical Laboratory, Wright Field, Dayton, Ohio. On leave of absence from the University of Southern California, Los Angeles, Calif. (**1,** 1947)

Henschel, Austin F., Ph.D. University of Minnesota, Minneapolis. *Assistant Professor of Physiological Hygiene.* (**1,** 1944)

Hepburn, Joseph Samuel, A.M., M.S., Ph.D., M.D. Chem.D. 235 N. 15th St., Philadelphia 2, Pa. *Professor of Chemistry and Research Associate in Gastro-Enterology; Registrar, Hahnemann Medical College and Hospital.* (**2,** 1915)

Hepler, Opal E., Ph.D., M.D. Northwestern University Medical School, 303 E. Chicago Ave., Chicago, Ill. *Assistant Professor of Pathology.* (**4,** 1939)

Herbst, Robert M., Ph.D. Kedzie Chemical Laboratory, Michigan State College, East Lansing. *Associate Professor of Chemistry.* (**2,** 1938)

Herget, Carl M., Ph.D. Army Chemical Center, Medical Division, Edgewood, Md. *Chief, Biophysics Section.* (**1,** 1948)

Herrick, Julia F., M.A., Ph.D. Mayo Foundation, Rochester, Minn. *Associate Professor of Experimental Medicine.* (**1,** 1933)

Herrin, Raymond C., Ph.D., M.D. University of Wisconsin Medical School, Madison. *Associate Professor of Physiology.* (**1,** 1932)

Herrington, Lovic P., M.A., Ph.D. 290 Congress Ave., New Haven, Conn. *Associate Director, John B. Pierce Laboratory of Hygiene; Research Associate Professor, Dept. of Public Health, Yale Medical School.* (**1,** 1942)

Herriott, Roger M., Ph.D. Johns Hopkins School of Hygiene and Public Health, Baltimore, Md. *Prof. of Biochemistry.* (**2,** 1940)

Herrmann, George, Ph.D., M.D. University of Texas, Medical Branch, Galveston. *Professor of Medicine.* (**4,** 1925)

Hermann, Julian B., Ph.B., M.D., 1185 Park Ave., New York City. (**3,** 1941).

Herrmann, Louis George, M.D. Cincinnati General Hospital, Cincinnati 29, O. *Associate Professor of Surgery, University of Cincinnati College of Medicine; Attending Surgeon, Surgical Services, Cincinnati General Hospital and Children's Hospital and Christian R. Holmes Hospital of University of Cincinnati.* (**4,** 1933)

Hershey, A. D., Ph.D. Washington University School of Medicine, St. Louis, Mo. *Associate Professor of Bacteriology and Immunology.* (**6,** 1942)

Hertz, Roy, Ph.D., M.D. National Institutes of Health, Bethesda 14, Md. *P. H. Surgeon (R), Division of Physiology.* (**1,** 1945)

Hertz, Saul, M.D. 330 Brookline Ave., Boston, Mass. Beth Israel Hospital. *Instructor, Harvard Medical School.* (**4,** 1935)

Hertzman, Alrick B., Ph.D. St. Louis University School of Medicine, St. Louis, Mo. *Professor of Physiology and Director of the Department.* (**1,** 1925)

Herwick, Robert P., Ph.D., M.D., LL.B. U. S. Food and Drug Administration, Washington, D. C. *Chief, Drug Division, Associate Prof. Pharmacology, Georgetown Medical School, Adjunct Clinical Professor Medicine (Therapeutics) George Washington Medical School.* (**3,** 1938)

Hess, Charles L., M.S., M.D. 308 Davidson Bldg., Bay City, Mich. (**1,** 1916)

Hess, Walter C., Ph.D. Georgetown Medical

School, 39th St. and Reservoir Rd., N.W., Washington, D. C. *Professor of Biological Chemistry.* (**2,** 1935)

Hetherington, Albert W., M.S., Ph.D. School of Aviation Medicine, Randolph Field, Texas. (**1,** 1943)

Hewetson, Jean Hawks, M.D. Biglerville, Pa. (**5,** 1944)

Hewitt, Earl Albon, M.S., Ph.D. Iowa State College, Ames. *Associate Professor of Veterinary Physiology.* (**1,** 1932)

Hewitt, Julia A. W., B.A. 2631 Central Ave., N.E., Minneapolis 13, Minn. *Senior Technician, Huntington Hospital Lab., Huntington, N. Y.* (**6,** 1921)

Heyroth, Francis F., M.D., Ph.D. University of Cincinnati, Cincinnati, Ohio. *Assoc. Prof. of Ind. Toxicology and Asst. Director, Kettering Lab.; Assoc. Prof. of Biological Chem., College of Med.* (**2,** 1935)

Hiatt, Edwin P., M.A., Ph.D. North Carolina University School of Medicine, Chapel Hill. *Associate Professor of Physiology.* (**1,** 1942)

Hickman, Kenneth C. D., Ph.D. 56 Thackeray Road, Rochester 10, N. Y. *Consultant, Arthur D. Little, Inc.* (**2,** 1944)

Hiestand, William A., Ph.D. Department of Biology, Purdue University, Lafayette, Ind. *Professor of Physiology.* (**1,** 1947)

Higgins, George M., Ph.D. Mayo Clinic, Rochester, Minn. *Professor of Experimental Biology, Mayo Foundation.* (**5,** 1948)

Higgins, Harold Leonard, M.D. 322 Franklin, Newton, Mass. (**1,** 1914; **5,** 1933)

Highman, Benjamin, M.D. National Institutes of Health, Bethesda, Md. *Surgeon, Pathology Lab.* (**4,** 1947)

Hill, Edgar S., M.S., Ph.D. Washington University, College of Dentistry, St. Louis, Mo. *Associate Professor of Biological Chemistry and Physiology.* (**2,** 1936)

Hill, Robert M., M.S., Ph.D. University of Colorado Med. Ctr., Denver, Colo. *Prof. of Biochemistry.* (**2,** 1933)

Hill, Samuel E., M.A., Ph.D., 18 Collins Ave., Troy, N. Y. *Research Worker, The Behr-Manning Corp.* (**1,** 1934)

Hiller, Alma, Ph.D. Presbyterian Hospital of the City of Chicago, Chicago, Ill. *Assoc. Biochemist.* (**2,** 1929)

Himwich, Harold E., M.D. Fallston, Md. *Chief, Clinical Research Branch, Medical Division, Army Chemical Center, Maryland.* (**1,** 1925; **5,** 1933)

Himwich, Williamina A., M.S., Ph.D. Toxicology Section, Medical Division, Army Chemical Center, Md. (**1,** 1947)

Hine, Charles H., M.A., Ph.D., M.D. Pharmacology and Toxicology Department, Medical Center, The University of California Medical School, San Francisco 22, Calif. *Lecturer in Toxicology,* University of California Medical School; *Consulting Pharmacologist and Toxicologist,* Shell Development Co. (**3,** 1947)

Hines, Harry M., M.S., Ph.D. The State University of Iowa, Iowa City. *Professor of Physiology.* (**1,** 1928)

Hines, Marion, Ph.D. Department of Anatomy, Emory University, Ga. *Professor of Experimental Anatomy.* (**1,** 1932)

Hinrichs, Marie, Ph.D., M.D. Southern Illinois Normal University, Carbondale. *Professor of Physiology; Director of Student Health Service.* (**1,** 1928)

Hinsey, Joseph C., M.S., Ph.D. Cornell University Medical College, 1300 York Ave., New York City. *Professor of Anatomy and Dean of the Medical College.* (**1,** 1929)

Hirschmann, Hans, M.D., Ph.D. Lakeside Hospital, Cleveland, Ohio. *Assistant Professor of Biochemistry, Department of Medicine, Western Reserve University.* (**2,** 1946)

Hirszfeld, Ludwik, M.D. University of Wroclaw, Wroclaw, Ul. Chaubinskiego 4, Poland. *Professor of Microbiology; Director of Medical Microbiology.* (**6,** 1946)

Hisaw, Frederick L., A.M., Ph.D. The Biological Laboratories, Harvard University, Cambridge, Mass. *Professor of Zoology.* (**1,** 1932)

Hitchcock, David I., Ph.D. 333 Cedar St., New Haven, Conn. *Associate Professor of Physiology, Yale University.* (**2,** 1930)

Hitchcock, Fred A., M.Sc., Ph.D. Ohio State University, Columbus. *Professor of Physiology.* (**1,** 1927; **5,** 1933)

Hitchcock, Philip, A.B., M.S., Ph.D. Department of Physiology and Pharmacology, Medical College of Alabama, Birmingham 5, Ala. *Assistant Professor of Physiology and Pharmacology.* (**3,** 1946)

Hitchings, George H., Ph.D. 50 Primrose Ave., Tuckahoe, N. Y. *Chief Biochemist., Wellcome Research Laboratories.* (**2,** 1942)

Hjort, Axel M., M.D., Ph.D. P. O. Box 281, 14 Fern Way, Scarsdale, N. Y. *Adjunct Physician, Grasslands Hospital, Valhalla, N. Y.* (**2,** 1925)

Hoagland, Hudson, M.S., Ph.D., Sc.D. (hon.). 222 Maple Ave., Shrewsbury, Mass. *Executive Director, Worcester Foundation for Experimental Biology; Neurophysiologist, Worcester State Hospital; and Research Professor of Physiology, Tufts College Medical School.* (**1,** 1932)

Hobby, Gladys L., A.B., M.A., Ph.D. 11 Bartlett St., Brooklyn 6, N. Y. *Research Bacteriologist in Charge of Biological Control, Chas. Pfizer & Co.* (**6,** 1946)

Höber, Rudolf. University of Pennsylvania Medical School, Philadelphia. *Visiting Professor of Physiology.* (**1,** 1936)

Hodes, Robert, Ph.D. Johnson Foundation, Uni-

versity of Pennsylvania, Philadelphia. *Associate in Biophysics; Professor of Physical Medicine.* (**1,** 1941)

Hodge, Harold Carpenter., Ph.D. University of Rochester School of Medicine and Dentistry, Rochester, N. Y. *Professor of Pharmacology and Toxicology.* (**2,** 1937; **3,** 1948)

Hoefer, Paul F. A., Ph.D., M.D. Neurological Institute of New York, 710 W. 168th St., New York 32, N. Y. *Associate Professor of Neurology.* (**1,** 1945)

Hoff, Ebbe Curtis, M.A., Ph.D. Medical College of Virginia, Richmond 19. *Associate Professor.* (**1,** 1933)

Hoff, Hebbel E., M.A., Ph.D. McGill University, Montreal, Quebec, Canada. *Professor of Physiology.* (**1,** 1933)

Hoffman, William Samuel, Ph.D., M.D. Hektoen Institute for Medical Research, Chicago, Ill. *Director of Biochemistry; Director of Biochemistry, Cook County Hospital.* (**2,** 1935)

Hofmann, Klaus, Ph.D. Department of Chemistry, University of Pittsburgh, Pittsburgh, Penn. *Research Professor.* (**2,** 1947)

Hogan, Albert G., A.M., Ph.D. 105 Schweitzer Hall, Columbia, Mo. *Professor of Animal Nutrition, University of Missouri.* (**2,** 1916; **5,** 1933)

Hogness, Thorfin R., Ch.E., Ph.D. University of Chicago, Chicago, Ill. *Director, Inst. of Radiobiology and Biophysics.* (**2,** 1941)

Holck, Harald G. O., Ph.D. College of Pharmacy, University of Nebraska, Lincoln. *Associate Professor of Pharmacology.* (**1,** 1935; **3,** 1938)

Hollaender, Alexander, M.A., Ph.D. Oak Ridge National Laboratory, Oak Ridge, Tenn. (**1,** 1947)

Hollander, Franklin, Ph.D. Mount Sinai Hospital, Fifth Ave. and 100th St., New York City. *Associate in Physiology; Head, Gastro-Enterology Research Laboratory.* (**1,** 1942; **2,** 1932)

Holm, August, Sc.D. E. R. Squibb & Sons, New Brunswick, N. J. *Research Associate.* (**6,** 1946)

Holman, Ralph Theodore, Ph.D. A. and M. College of Texas, College Station, Texas. *Assoc. Professor of Biochemistry and Nutrition.* (**2,** 1948)

Holman, Russell Lowell, M.D. Louisiana State University School of Medicine, New Orleans, La. *Professor of Pathology.* (**4,** 1940)

Holmes, Arthur Dunham, Ph.D. University of Massachusetts, Amherst. *Research Professor of Chemistry.* (**2,** 1931; **5,** 1933)

Holmes, Joseph H., M.D., D. Med. Sc. University of Colorado School of Medicine, 4200 E. Ninth Ave., Denver 7. *Assistant Professor of Physiology.* (**1,** 1947)

Holmes, Julia O., M.S., Ph.D. University of Massachusetts, Amherst. *Research Asst. of Chemistry Dept.* (**2,** 1942; **5,** 1936)

Holt, Joseph Paynter, M.S., M.D., Ph.D. Standard Oil Co., Room 2400, 30 Rockefeller Plaza, New York 20, N. Y. *Director of Medical Research.* (**1,** 1942)

Holt, L. Emmett, Jr., M.D. 477 First Ave., New York 16, N. Y. *Professor of Pediatrics, New York University College of Medicine.* (**2,** 1930; **5,** 1946)

Hoobler, Icie Macy, M.S., Ph.D., Sc.D. 660 Frederick St., Detroit, Mich. *Director, Research Laboratory Children's Fund of Michigan.* (**2,** 1925; **5,** 1933)

Hooker, Davenport, M.A., Ph.D. University of Pittsburgh School of Medicine, Pittsburgh, Pa. *Professor of Anatomy.* (**1,** 1920)

Hooker, Sanford B., A.M., M.D. 80 E. Concord St., Boston, Mass. *Member, Evans Memorial.* (**6,** 1918)

Hoover, Sam R., M.A., Ph.D. 7815 Linden Rd., Philadelphia 18, Pa. *Senior Chemist Eastern Regional Research Laboratory, U. S. Department of Agriculture.* (**2,** 1946)

Hoppert, C. A., Ph.D. Michigan State College, Box 626, East Lansing. *Professor of Biological Chemistry.* (**5,** 1935)

Hopps, Howard C., M.D. Department of Pathology, University of Oklahoma School of Medicine, 801 E. 13th St., Oklahoma City, Okla. *Professor of Pathology and Chairman of Dept.* (**4,** 1947; **6,** 1946)

Horecker, Bernard L., Ph.D. National Institutes of Health, Bethesda, Md. *Sr. Biochemist.* (**2,** 1947)

Horowitz, Norman H., Ph.D. California Institute of Technology, Pasadena, Calif. *Associate Professor of Biology.* (**2,** 1946)

Horsfall, Frank L., Jr., M.D., C.M. Rockefeller Institute, 66th St. and York Ave., New York City. *Member; Physician to the Hospital of the Rockefeller Inst. for Medical Research.* (**6,** 1937)

Horton, Richard G., Ph.D. Army Chemical Center, Medical Division, Edgewood, Md. *Acting Chief, Toxicology Section.* (**1,** 1948)

Horvath, Steven M., M.A., Ph.D. Dept. of Physical Medicine, Hospital of the Univ. of Pennsylvania, Philadelphia, Pa. (**1,** 1943)

Horwitt, M. K., Ph.D. Biochemical Research Laboratory, Elgin State Hospital, Elgin, Ill. *Director; Assistant Professor, Biological Chemistry, University of Illinois School of Medicine.* (**2,** 1941)

Hotchkiss, Rollin D., Ph.D. The Rockefeller Institute for Medical Research, 66th St. and York Ave., New York City. *Associate.* (**2,** 1941)

Houck, C. Riley, A.M., Ph.D. University of Tennessee Medical School, Memphis 3. *Assistant Professor in Physiology.* (**1,** 1947)

Hove, Edwin L., M.S., Ph.D. Alabama Polytechnic Institute, Laboratory of Animal Nutrition, Auburn, Ala. *Research Biochemist.* (**5,** 1946)

Howard, Evelyn, A.M., Ph.D. Johns Hopkins School of Medicine, Baltimore, Md. *Instructor in Physiology.* (**1,** 1933)

Howard, John Eager, A.B., M.D. Johns Hopkins Hospital, Baltimore 5, Md. *Assistant Professor of Medicine.* (**1,** 1946)

Howard, Marion E., M.D. New Haven Hospital, New Haven, Conn. *Associate Clinical Professor of Medicine, Yale School of Medicine; Associate Physician, New Haven Hospital and New Haven Dispensary.* (**4,** 1939; **6,** 1937)

Howe, Paul E., A.M., Ph.D. U. S. Dept. of Agriculture, Bureau of Animal Ind., Beltsville, Md. *Nutrition Consultant.* (**1,** 1913; **2,** 1909; **5,** 1933)

Howe, Percy R., M.D., D.D.S. Forsyth Dental Infirmary for Children, Boston, Mass. *Director Forsyth Dental Infirmary; Professor Dental Sciences; Instructor in Pathology.* (**5,** 1935)

Howell, Katherine M., M.D. 6830 S. Merrill Ave., Chicago, Ill. *Head of Departments of Bacteriology and Serology.* (**6,** 1940)

Howell, Stacey F., Ph.D. V. D. Research Laboratory, U. S. Marine Hospital, Stapleton, Staten Island, N. Y. *Chemist, U. S. Public Health Service.* (**2,** 1940)

Hubbard, Roger Sanford, A.M., Ph.D. University of Buffalo Sch. of Med., Buffalo, N. Y. *Prof. of Pharmacology.* (**1,** 1922; **2,** 1920)

Hubbell, Rebecca B., M.S., Ph.D. Connecticut Agricultural Experiment Station, New Haven. *Assistant Biochemist.* (**2,** 1937; **5,** 1935)

Hudack, Stephen Sylvester, M.D. 180 Fort Washington Ave., New York, N. Y. *Associate Professor of Orthopedic Surgery, Columbia Univ.* (**4,** 1933)

Huddleston, Ora Leonard, M.D., Ph.D. Los Angeles County General Hospital, 1900 N. State St., Los Angeles 33, Calif. (**1,** 1936)

Hueper, Wilhelm C., M.D. National Cancer Institute, Bethesda, Md. *Chief, Environmental Cancer Section.* (**4,** 1940)

Huffman, C. F., M.S., Ph.D. Michigan State College, East Lansing. *Research Professor and Professor in Dairy Husbandry.* (**5,** 1937)

Huffman, Max N., B.A., Ph.D. Southwestern Medical College, 2211 Oak Lawn, Dallas, Texas. *Research Professor of Biochemistry.* (**2,** 1947)

Huggins, Charles Brenton, M.D. University of Chicago, Chicago, Ill. *Professor of Surgery.* (**1,** 1932)

Hughes, Hettie B., M.S., Ph.D. The Christ Hospital, Cincinnati 19, Ohio. *Research Associate.* (**2,** 1946)

Hughes, Joseph, M.D. 111 N. 49th St., Philadelphia, Pa. *Assistant Professor of Experimental Neurology, Graduate School of Medicine, University of Pennsylvania; Director of Laboratory, Pennsylvania Hospital for Mental Diseases.* (**1,** 1936)

Hughes, Josiah Simpson, M.A., M.S., Ph.D. Kansas State College, Manhattan. *Professor of Chemistry.* (**2,** 1931; **5,** 1939)

Hughes, Thomas P., A.M., Ph.D. Caixa Postal 89, Rio de Janeiro, Brazil. *Member of Staff, International Health Division.* (**6,** 1934)

Hulpieu, Harold R., M.A., Ph.D. Indiana University School of Medicine, Indianapolis. *Professor of Pharmacology.* (**3,** 1939)

Hunscher, Helen A., Ph.D. Western Reserve University, 2023 Adelbert Rd., Cleveland 6, O. *Head of Department of Home Economics.* (**5,** 1934)

Hunter, Andrew, C.B.E., M.B., F.R.S.C. Hospital for Sick Children, Toronto, Canada. *Consulting Biochemist; Emeritus Professor of Pathological Chemistry, Univ. of Toronto.* (**2,** 1908)

Hunter, Francis Edmund, Jr., Ph.D. Pharmacology Department, Washington University Medical School, St. Louis 10, Mo. *Assistant Professor of Pharmacology.* (**2,** 1946)

Hunter, George, M.A., D.Sc., F.R.S.C. University of Alberta, Edmonton, Canada. *Professor of Biochemistry.* (**2,** 1924)

Hunter, Jesse E., M.S., Ph.D. Allied Mills, Inc., 7500 S. Adams St., Peoria, Ill. *Director of Research.* (**5,** 1936)

Hunter, John, Ph.D. Univ. of Michigan, Ann Arbor, Mich. *Instructor in Physiology.* (**1,** 1948)

Hussey, Raymond, M.D. Medical Science Center of Wayne University, 1547 Penobscot Building, Detroit 26, Mich. *Director, Institute for Occupational Health Research; Dean and Professor of Occupational Health, School of Occupational Health.* (**4,** 1927)

Hutchens, John O., Ph.D. Department of Physiology, University of Chicago, Chicago 37, Ill. *Associate Professor of Physiology and Chairman of the Department; Director of the Toxicity Laboratory.* (**1,** 1947)

Hyman, Chester, Ph.D. Univ. of Southern California Sch. of Med., Los Angeles, Calif. *Asst. Professor of Physiology.* (**1,** 1948)

Ingalls, Mabel S., Ph.D. Salisbury Mills, Orange County, N. Y. (**6,** 1940)

Ingle, Dwight J., M.S., Ph.D. The Upjohn Co., Research Department, Kalamazoo, Mich. *Upjohn Research Fellow.* (**1,** 1939)

Ingraham, Raymond Clifford, Ph.D. College of Medicine, University of Illinois, 1853 W. Polk St., Chicago. *Assistant Professor in Physiology.* (**1,** 1938)

Ingram, W. R., Ph.D. College of Medicine, The State University of Iowa, Iowa City. *Professor and Head of the Department of Anatomy.* (**1,** 1936)

Irish, Don D., Ph.D. The Dow Chemical Co., Midland, Mich. *Director, Biochemical Research Laboratory.* **(3,** 1948)

Irvin, J. Logan, Ph.D. Johns Hopkins University School of Medicine, 710 N. Washington St., Baltimore, Md. *Assistant Professor of Physiological Chemistry.* **(2,** 1942)

Irving, George Washington, Jr., M.A., Ph.D. U. S. Dept. of Agriculture, Bur. of Ag. and Ind. Chem., Washington, D. C. *Assistant Chief.* **(2,** 1946)

Irving, Laurence, A.M., Ph.D. Swarthmore College, Swarthmore, Pa. *Lt. Col., A.C. Professor of Experimental Biology.* **(1,** 1927)

Irwin, M. R., Ph.D. Department of Genetics, University of Wisconsin, Madison. *Professor of Genetics.* **(6,** 1936)

Isaacs, Raphael, M.D. 104 S. Michigan Ave., Suite 630, Chicago 3, Ill. *Attending Physician, Department of Hematology, Michael Reese Hospital.* **(4,** 1928)

Isenberger, R. M., M.A., M.D. University of Kansas School of Medicine, Kansas City. *Professor of Pharmacology.* **(3,** 1937)

Iwamoto, Harry K., Ph.D. Univ. of Maryland School of Medicine, Baltimore, Md. *Asst. Professor of Pharmacology.* **(3,** 1948)

Ivy, A. C., Ph.D., M.D., D.Sc. University of Illinois, Chicago Professional Colleges, Chicago, Ill. *Vice-President; Distinguished Professor of Physiology.* **(1,** 1919; **5,** 1933)

Izquierdo, J. Joaquin, M.D. National School of Medicine, Mexico City *Professor of Physiology in the National School of Medicine and the Escuela Medico Militar of Mexico.* **(1,** 1928)

Jackson, Dennis Emerson, A.M., Ph.D., M.D. University of Cincinnati Medical School, Eden and Bethesda Aves., Cincinnati, O *Professor of Pharmacology.* **(1,** 1910; **3R,** 1912)

Jackson, Eugene L., Ph.D. 12 S. 12th St., Richmond 19, Va. *Medical Director, A. H. Robins Co.* **(3,** 1942)

Jackson, Richard W., Ph.D. Northern Regional Research Laboratory, U. S. Department of Agriculture, 825 N. University St., Peoria 5, Ill. *Head of Fermentation Division.* **(2,** 1930; **5,** 1933)

Jacobs, Merkel Henry, Ph.D. University of Pennsylvania, Philadelphia. *Professor of General Physiology; Member of the National Academy of Sciences.* **(1,** 1919)

Jacobs, Walter A., A.M., Ph.D. Rockefeller Institute, 66th St. and York Ave., New York City. *Member; Member, National Academy of Sciences.* **(2,** 1908; **3,** 1913)

Jacobson, Edmund, Ph.D., M.D. Laboratory for Clinical Physiology, 55 E. Washington St., Chicago, Ill. **(1,** 1929)

Jaffe, Henry L., M.D. Hospital for Joint Diseases, 1919 Madison Ave., New York City. *Director of Laboratories.* **(4,** 1925)

Jahn, Theodore Louis, Ph.D. University of California, Los Angeles, Calif. *Dept. of Zoology.* **(1,** 1944)

Jailer, Joseph W., Ph.D. Columbia Univ. Coll. of Phys. and Surg., New York City. *Instructor in Medicine.* **(1,** 1948)

Jamieson, Walter A., Sc.D.(hon.). Eli Lilly & Company, Indianapolis, Ind. *Director, Biological Division.* **(6,** 1927)

Jandorf, Bernard J., A.M., Ph.D., Medical Division, Army Chemical Center, Md. *Research Biochemist, Biochemistry Section, Lecturer in Preventive Medicine, Johns Hopkins University School of Medicine.* **(2,** 1946)

James, Ralph G., Ph.D. State Univ. of Iowa Coll. of Med., Iowa City, Iowa. *Asst. Professor of Anatomy.* **(1,** 1948)

Jansen, Eugene F., B.A. Enzyme Research Laboratory, Western Regional Research Laboratory, Albany 6, Calif. *Senior Chemist,* Bureau of Agricultural and Industrial Chemistry, U. S. Department of Agriculture. **(2,** 1947)

Jacques, L. B., M.A., Ph.D. Univ. of Saskatchewan, Saskatoon, Sask., Canada. *Professor of Physiology.* **(1,** 1943)

Jasper, Herbert H., M.A., Ph.D., D. és Sci. Montreal Neurological Institute, 3801 University St., Montreal, Que., Canada. *Lecturer in Neuroelectrography and Director of Department of Electrophysiology.* **(1,** 1940)

Jeans, P. C., M.D. State University of Iowa, Iowa City. *Professor of Pediatrics.* **(5,** 1937)

Jensen, Hans F. Ph.D. Medical Research Field Laboratory, Fort Knox, Kentucky. *Chief Biochemist.* **(2,** 1929)

Jochim, Kenneth E., Ph.D. Dept. of Physiology, Univ. of Kansas, Lawrence. **(1,** 1942)

Johlin, J. M., Ph.D., D.Sc. Vanderbilt University School of Medicine, Nashville, Tenn. *Associate Professor of Biochemistry.* **(2,** 1928)

Johnson, B. Connor, M.A., Ph.D., Division of Animal Nutrition, University of Illinois, Urbana, Ill. *Assoc. Professor.* **(2, 5,** 1947)

Johnson, Frank H., A.M., Ph.D. Princeton University, Princeton, N. J. *Assistant Professor, Dept. of Biology.* **(1,** 1942)

Johnson, Joseph L., Ph.D., M.D. School of Medicine, Howard University, Washington, D. C. *Professor and Head of the Department of Physiology.* **(1,** 1934)

Johnson, J. Raymond, Ph.D. University of Ottawa, Faculty of Medicine, Ottawa, Ontario, Canada. **(1,** 1938)

Johnson, Marvin J., M. S., Ph.D. University of Wisconsin, Madison. *Professor of Biochemistry.* **(2,** 1941)

Johnson, Robert E., M.D., Ph.D. Army Medical Nutrition Laboratory, 1849 W. Pershing Rd., Chicago 9, Ill. *Director.* (**1,** 1944; **2,** 1939; **5,** 1946)

Johnson, S. R., M.S., Ph.D. Missouri Farmers Association Milling Co., Springfield, Mo. *Director of Nutrition.* (**5,** 1947)

Johnson, Victor, Ph.D., M.D. Mayo Foundation, Rochester, Minn. (**1,** 1933)

Johnston, Charles G., M.S., M.D. Wayne University College of Medicine, Detroit, Mich. *Professor of Surgery.* (**1,** 1933)

Johnston, Frances A., Ph.D. Cornell Univ., Ithaca, N. Y. *Asst. Professor of Foods and Nutrition.* (**5,** 1948)

Johnston, Margaret W., Ph.D. B 452, University Hospital, Ann Arbor, Mich. *Research Associate in Internal Medicine.* (**2,** 1930; **5,** 1938)

Jolliffe, Norman, M.D. 39 E. 75th St., New York, N. Y. (**1,** 1932)

Jones, D. Breese, Ph.D. Bureau of Human Nutrition and Home Economics, Agricultural Research Administration, U. S. Department of Agriculture, Beltsville, Md. *Protein Chemist.* (**2,** 1920; **5,** 1935)

Jones, James H., M.S., Ph.D. School of Veterinary Medicine, University of Pennsylvania, Philadelphia. *Professor of Physiological Chemistry.* (**2,** 1928; **5,** 1933)

Jones, Kenneth K., M.S., Ph.D. Northwestern University Medical School, 303 E. Chicago Ave., Chicago, Ill. *Associate Professor of Physiology and Pharmacology.* (**1,** 1936)

Joseph, Norman R., Ph.D. University of Illinois, 1853 West Polk Street, Chicago 12, Ill. *Assistant Professor of Chemistry.* (**2,** 1947)

Joslin, Elliott P., M.A., M.D. New England Deaconess Hospital, 81 Bay State Rd., Boston, Mass. *Director, George F. Baker Clinic.* (**5,** 1933)

Jukes, Thomas Hughes, Ph.D. Lederle Laboratories, Pearl River, N. Y. *Head, Department of Nutrition and Physiology Research.* (**2,** 1935; **5,** 1938)

Jung, Frederic Theodore, Ph.D., M.D. American Medical Association, Chicago, Ill. *Assistant Secretary.* (**1,** 1930)

Jungeblut, Claus W., M.D. College of Physicians and Surgeons, 630 W. 168th St., New York City. *Professor of Bacteriology, Columbia University.* (**4,** 1929; **6,** 1926)

Kabat, Elvin A., A.M., Ph.D. Columbia University Coll. of Phys. and Surg., 710 W. 168th St., New York City. *Assoc. Prof. of Bacteriology.* (**2,** 1940; **6,** 1943)

Kabat, Herman, Ph.D., M.D. 2633 16th St., N.W., Washington, D. C. *Consultant in Neurology, Health Department, District of Columbia.* (**1,** 1941)

Kahn, Reuben L., Sc.D., LL.D. University of Michigan Hospital, Ann Arbor. *Associate Professor of Serology of Syphilis and Chief of Serology Laboratory.* (**4,** 1934; **6,** 1919)

Kalckar, Herman M., M.D., Ph.D. Institute for Medical Physiology, University of Copenhagen, 28 Juliane Varies Vej Copenhagen, Denmark. *Associate Professor.* (**2,** 1942)

Kalnitsky, George, Ph.D. State Univ. of Iowa, Iowa City, Iowa. *Asst. Professor of Biochemistry.* (**2,** 1948)

Kamen, Martin D., Ph.D. Washington University Medical School, 510 S. Kingshighway, St. Louis 10, Mo. *Associate Professor of Chemistry.* (**2,** 1946)

Kamm, Oliver, Ph.D. 365 Lakeshore Drive, Detroit, Mich. *Scientific Director, Research Laboratory, Parke, Davis & Co.* (**2,** 1928)

Karel, Leonard, Ph.D. Research Grants Division, National Institute of Health, Bethesda 14, Md. *Ex. Asst. Antibiotics and Pharmacology Study Sections;* Univ. of Md. Sch. of Med., *Lecturer in Pharmacology.* (**3,** 1947)

Karpovich, Peter V., M.D., M.P.E. Springfield College, Springfield, Mass. *Professor of Physiology.* (**1,** 1942)

Karshan, Maxwell, Ph.D. Department of Biological Chemistry, Columbia University, 630 W. 168th St., New York City. *Associate Professor of Biochemistry.* (**2,** 1939)

Karsner, Howard T., M.D. Western Reserve University, 2085 Adelbert Rd., Cleveland, O. *Professor of Pathology; Director of the Institute of Pathology.* (**4,** 1913; **6,** 1925)

Katz, Louis Nelson, A.M., M.D. 2900 Ellis Ave., Chicago, Ill. *Director of Cardiovascular Research, Michael Reese Hospital; Professorial Lecturer in Physiology, University of Chicago.* (**1,** 1924)

Katzman, Philip A., Ph.D. St. Louis University School of Medicine, 1402 S. Grand Blvd., St. Louis 4, Mo. *Associate Professor of Biochemistry.* (**2,** 1935)

Kaulbersz, Jerzy, Ph.D., M.D. Collegium Medica, Grzegorzecka 16, Cracow, Poland. *Professor of Physiology.* (**1,** 1944)

Kaunitz, Hans, M.D. College of Physicians and Surgeons, Columbia University, 630 West 168th Street, New York, N. Y. *Research Associate in Pathology.* (**4,** 1947)

Kay, Herbert Davenport, Ph.D., D.Sc., F.R.S. National Institute for Research in Dairying, Shinfield, near Reading, England. *Director; Research Professor of Biochemistry, University of Reading.* (**2,** 1930)

Kazal, Louis Anthony, Ph.D. Medical Research Division, Sharp & Dohme, Inc., Glenolden, Penn. *Research Biochemist.* (**2,** 1947)

Keeton, Robert W., M.S., M.D. 1817 W. Polk St., Chicago. *Professor of Medicine, Univ. of Illinois Coll. of Medicine.* (**1,** 1916; **3,** 1924)

Kehoe, Robert A., M.D. Kettering Laboratory

of Applied Physiology, College of Medicine, University of Cincinnati, Eden Ave., Cincinnati, O. *Research Professor of Physiology.* (**1,** 1940)

Keith, Norman M., M.D. Mayo Clinic, Rochester, Minn. *Consulting Physician, Division of Medicine, Mayo Clinic; Professor of Medicine, Mayo Foundation, University of Minnesota.* (**1,** 1920; **3,** 1932; **4,** 1924)

Keith, T. B., Ph.D. Dept. of Animal Husbandry, University of Idaho, Moscow, Idaho. (**5,** 1941)

Kellaway, Peter E., M.A., Ph.D. Baylor University, College of Medicine, Houston, Texas. (**1,** 1947)

Keller, Allen D., Ph.D. Field Research Lab., Fort Knox, Kentucky. *Medical Dept.* (**1,** 1931)

Kelser, Raymond A., D.V.M., Ph.D. 130 Valley Rd., Ardmore, Pa. *Professor of Bacteriology and Dean of Faculty School of Veterinary Medicine, University of Pennsylvania, Philadelphia, Pa.* (**4,** 1932)

Kelsey, F. Ellis, B.S., Ph.D. University of Chicago, Chicago, Ill. *Research Associate (Instructor) in Pharmacology.* (**3,** 1941)

Kelsey, Frances Kathleen O., M.S., Ph.D. University of Chicago, Chicago, Ill. *Assoc. Professor of Pharmacology.* (**3,** 1941)

Kemmerer, A. R., Ph.D. University of Arizona, Tucson, Arizona. *Head, Dept. of Human Nutrition.* (**5,** 1946)

Kempner, Walter, M.D. Duke University School of Medicine, Durham, N. C. *Assistant Professor of Medicine.* (**1,** 1940)

Kendall, Edward C., M.S., Ph.D., D.Sc. 627 Eighth Ave., S.W., Rochester, Minn. *Professor of Biochemistry, Mayo Foundation, University of Minnesota.* (**1,** 1916; **2,** 1913; **4,** prior to 1920)

Kendall, Forrest E., Ph.D. 240-06—53rd Ave. Douglaston, Long Island, N. Y. *Assistant Professor of Biochemistry, Research Service, Columbia Division, Goldwater Memorial Hospital, Welfare Island, N. Y.* (**6,** 1943)

Kennard, Margaret A., M.D. University of Oregon, Medical School, Dept. of Surgery, Portland, Ore. *Assoc. Professor of Experimental Surgery.* (**1,** 1934)

Kennedy, Cornelia, Ph.D. 2700 W. Robbins St., Minneapolis, Minn. (**2,** 1924; **5,** 1945)

Kennedy, Robert P., M.D. Knollwood Drive, R. D. 1, Rochester, N. Y. (**4,** 1929)

Kent, John F., A.M. Army Medical Center, Washington 12, D. C. *Scientific Director, Department of Serology, Army Medical Department Research and Graduate School.* (**6,** 1947)

Kenton, Harold B., Ph.D. New England Deaconess Hospital, Boston, Mass. *Bacteriologist and Director of the Blood Bank.* (**6,** 1934)

Kenyon, Allan T., M.D. University of Chicago, Division of Biological Sciences, 950 E. 59th St., Chicago, Ill. *Assistant Professor of Medicine.* (**3,** 1940)

Keresztesy, John C., Ph.D. National Institute of Health, Bethesda 14, Md. *Scientist Officer, Division of Physiology.* (**2,** 1941; **5,** 1945)

Kerr, Stanley E., Ph.D. American University of Beirut, Beirut, Lebanon, Syria. *Professor of Biological Chemistry.* (**2,** 1937)

Kerr, Wm. J., M.D. University of California Hospital, Third and Parnassus Aves., San Francisco. *Professor of Medicine, University of California; Physician-in-Chief, University of California Hospital.* (**3,** 1930)

Kesten, Homer D., M.D. College of Physicians and Surgeons, Columbia University, New York City. *Associate Professor of Pathology.* (**4,** 1931)

Kety, Seymour S., M.D. Dept. of Pharmacology, Medical School, University of Pennsylvania, Philadelphia 4. *Associate in Pharmacology, Medical School; Assistant Visiting Physician in Medicine, Philadelphia General Hospital.* (**3,** 1945)

Keys, Ancel, M.A., Ph.D., D.Phil. Stadium South Tower, University of Minnesota, Minneapolis. *Professor and Director of Laboratory of Physiological Hygiene.* (**1,** 1939; **2,** 1936)

Kidd, John G., M.D. Cornell University Medical College, 1300 York Ave., New York City. *Professor of Pathology; Pathologist, New York Hospital.* (**4,** 1938; **6,** 1937)

Kies, Marian W., Ph.D. 2827 Otis St. N.E., Washington, D. C. (**2,** 1948)

Kik, M. C., Ph.D. College of Agriculture, University of Arkansas, Fayetteville. *Associate Professor of Agricultural Chemistry.* (**5,** 1942)

Kilborn, Leslie G., M.A., M.D., Ph.D. 47 Warren Road, Toronto, Ontario, Canada. At present: West China Union University, Chengtu, Sze., China. (**1,** 1928)

Killian, John Allen, A.M., Ph.D. Killian Research Laboratories, Inc., 49 W. 45th St., New York City. (**2,** 1921)

Kinard, F. W., M.S., Ph.D., M.D. Medical College of the State of South Carolina, Charleston 16. *Associate Professor of Physiology.* (**1,** 1947)

King, Barry G., M.A., Ph.D. Medical Service, Safety Regulations, Civil Aeronautics Administration, Department of Commerce, Washington, D. C. *Chief, Aeromedical Design and Material Division.* (**1,** 1938)

King, Charles Edwin, Ph.D. Vanderbilt University, Nashville, Tenn. *Associate Professor of Physiology.* (**1,** 1916)

King, Charles Glen, Ph.D. Nutrition Foundation, Inc., Chrysler Building, New York City. *Scientific Director; Professor of Chemistry, Columbia University.* (**2,** 1931; **5,** 1933)

King, Joseph T., M.D., Ph.D. 314 Millard Hall,

University of Minnesota Medical School, Minneapolis. *Associate Professor of Physiology.* (1, 1931)

Kirch, Ernst R., Ph.D. Univ. of Illinois College of Pharmacy, 808 S. Wood St., Chicago, Ill. *Assoc. Professor of Chemistry.* (2, 1948)

Kirchhof, Anton C., M.S., M.D. University of Oregon Medical School, Portland 1, Ore. *Research Associate, Dept. of Pharmacology.* (3, 1947)

Kirk, Paul L., Ph.D. University of California, Berkeley. *Professor of Biochemistry.* (2, 1933)

Kirkbride, Mary B., Sc.D. 314 State St., Albany 6, N. Y. (6, 1921)

Kirschbaum, Arthur, M.D., Ph.D. Univ. of Minnesota Medical School, Minneapolis, Minn. *Assoc. Professor of Anatomy.* (4, 1948)

Kisch, Bruno, M.D. Yeshiva University, New York City. *Professor of Biochemistry.* (1, 1943)

Kleiber, M., D.Sc. University of California, Davis. *Professor of Animal Husbandry.* (1, 1943; 5, 1933)

Klein, J. Raymond, Ph.D. Brookhaven National Lab., Upton, L. I., N. Y. *Sr. Scientist.* (2, 1941)

Kleiner, Israel Simon, Ph.D. New York Medical College and Flower Hospital, New York 29, N. Y. *Professor of Biochemistry; Director Dept. of Physiology and Biochemistry.* (1, 1911; 2, 1912; 3R, 1912; 5, 1933)

Kleitman, Nathaniel, A.M., Ph.D. University of Chicago, Chicago, Ill. *Associate Professor of Physiology.* (1, 1923)

Klemperer, Friedrich Wilhelm, M.D. Trudeau Foundation, Trudeau, N. Y. *Head of Department of Biochemistry.* (2, 1941)

Kletzien, Seymour W., M.S., Ph.D., 330 S. Ninth St., Philadelphia, Pa. Nutrition Research Clinic, Philadelphia Lying-In & Pennsylvania Hospitals. *Biochemist.* (5, 1933)

Kline, O. L., Ph.D. Federal Security Agency, Food and Drug Administration, Washington, D. C. *Biochemist.* (5, 1936)

Kline, Raymond F., B.S., M.S. Physiological Lab. Univ. of Virginia Med. School, Charlottesville, Va. *Instructor in Physiology.* (1, 1946)

Klotz, Irving M., Ph.D. Department of Chemistry, Northwestern University, Evanston, Ill. *Associate Professor of Chemistry.* (2, 1947)

Klüver, Heinrich, Ph.D. University of Chicago, Chicago, Ill. *Professor of Experimental Psychology.* (1, 1935)

Knight, C. Arthur, Ph.D. The Virus Laboratory, University of California, Berkeley 4, Calif. *Assoc. Professor.* (2, 1946)

Knoefel, Peter K., M.A., M.D. University of Louisville, 101 W. Chestnut St., Louisville, Ky. *Professor of Pharmacology.* (3, 1934)

Knox, Eugene W., M.D. 3026 S. California Ave., Chicago, Ill. *Research Associate, Rheumatic Fever Research Institute, Northwestern Univ. Medical School.* (2, 1948)

Knowlton, G. Clinton, Ph.D. Room 101, Physiology Bldg., Emory University, Ga. (1, 1938)

Knudson, Arthur, Ph.D. Albany Medical College, New Scotland Ave., Albany, N. Y. *Professor of Biochemistry and Associate Dean.* (2, 1919; 5, 1936)

Knutti, Ralph Eddy, M.D. Children's Hospital, Los Angeles, Calif. *Director of Laboratories; Assistant Professor of Pathology, University of Southern California.* (4, 1933)

Kober, Philip A., B.S. Sherman Laboratories, Detroit, Mich. *Director of Research.* (2, 1912)

Kobrak, Heinrich G., Ph.D. Univ. of Chicago, Chicago, Ill. *Asst. Professor of Surgery.* (1, 1948)

Kochakian, Charles D., Ph.D. University of Rochester School of Medicine and Dentistry, Rochester, N. Y. *Associate Professor of Physiology (Endocrinology).* (1, 1942; 2, 1948)

Kocher, Rudolph Alfred, M.D. Box 936, Carmel, Calif. *Director, Velie Metabolic Clinic.* (2, 1915)

Koehler, Alfred E., M.D., Ph.D. 317 W. Pueblo St., Santa Barbara, Calif. *Physician, Sansum Clinic, Santa Barbara Cottage Hospital.* (2, 1924)

Koehne, Martha, Ph.D. 285 15th Ave., Apt. 22, Columbus, Ohio. *Nutritionist, Ohio State Dept. of Health.* (5, 1933)

Koelle, George B., B.Sc., Ph.D. Wilmer Institute, Johns Hopkins Hospital, Baltimore, Md. *Chalfont Fellow in Ophthalmology* (3, 1947)

Koepf, George F., M.D. 537 Delaware Ave., Buffalo 2, N. Y. *Associate in Physiology, University of Buffalo.* (1, 1942)

Koerber, Walter L., Ph.D. E. R. Squibb & Sons, New Brunswick, N. J. *Assistant Department Head.* (6, 1943)

Kohlstaedt, Kenneth G., M.D. Lilly Laboratory for Clinical Research, Indianapolis City Hospital, Indianapolis 7, Ind. *Director.* (1, 1947)

Kohn, Henry I., Ph.D. Oak Ridge Nat'l. Lab., Oak Ridge, Tenn. *Surgeon, USPHS.* (1, 1940)

Kolmer, John A., M.S., M.D., D.P.H., Sc.D., LL.D., L.H.D. 1 Montgomery Ave., Bala-Cynwyd, Pa. *Professor of Medicine, Temple University; Director, Research Institute of Cutaneous Medicine.* (6, 1913)

Komarov, Simon A., M.S., M.D., Ph.D. S. S. Fels Fund, Med. Research Laboratory, 255 S. 17th St., Philadelphia, Pa. *Director of Dept. of Biochemistry.* (1, 1933)

Kopeloff, Nicholas, Ph.D. New York State

Psychiatric Institute, 722 W. 168th St., New York City. *Principal Research Bacteriologist, New York State Psychiatric Institute and Hospital.* (**6**, 1937)

Koppanyi, Theodore, Ph.D. Georgetown University, Washington, D. C. *Professor of Pharmacology.* (**1**, 1924; **3**, 1935)

Koprowski, Hillary, M.D. Lederle Laboratories Division, American Cyanamid Co., Pearl River, N. Y. *Asst. Director, Viral and Rickettsial Research.* (**6**, 1946)

Korr, Irwin M., M.A., Ph.D. Kirksville College of Osteopathy & Surgery, Kirksville, Mo. *Professor of Physiology.* (**1**, 1939)

Kottke, Frederic J., M.S., Ph.D., M.B., M.D. University of Minnesota, Minneapolis. *Baruch Fellow in Physical Medicine.* (**1**, 1947)

Kozelka, Frank L., Ph.D. Dept. of Pharmacology and Toxicology, University of Wisconsin, Madison. *Assoc. Professor of Toxicology.* (**3**, 1939)

Krahl, Maurice E., Ph.D. Washington Univ. School of Medicine, St. Louis 10, Mo. *Assistant Professor of Pharmacology.* (**2**, 1939)

Krakower, Cecil Alexander, M.D. University of Illinois College of Medicine, 1853 West Polk St., Chicago. *Associate Professor of Pathology.* (**4**, 1945)

Kramer, Benjamin, A.M., M.D. 60 Plaza St., Brooklyn, N. Y. *Pediatrician-in-Chief, Brooklyn Jewish Hospital; Professor of Clinical Pediatrics, Long Island College Medical School.* (**1**, 1915; **2**, 1914)

Kramer, Martha, Ph.D. Kansas State College, Manhattan. *Assistant Dean, School of Home Economics.* (**5**, 1933)

Kramer, S. D., M.D., Ph.D. 2635 36th Ave., St. Petersburg, Fla. *Virologist.* (**6**, 1944)

Krampitz, Lester O., Ph.D. Western Reserve Univ., Cleveland, Ohio. *Head, Dept. of Microbiology.* (**2**, 1946)

Krantz, John C., Jr., M.S., Ph.D. University of Maryland Medical School, Baltimore. *Professor of Pharmacology.* (**3**, 1937)

Krauss, William E., Ph.D. Ohio Agricultural Experiment Station, Wooster. *Associate Director.* (**2**, 1932; **5**, 1933)

Kraybill, Henry R., M.S., Ph.D. 5720 Woodlawn Ave., Chicago 37, Ill. *Professorial Lecturer, Department of Biochemistry, University of Chicago; Director, Department of Scientific Research, American Meat Institute Foundation.* (**2**, 1942)

Krayer, Otto, M.D. Harvard Medical School, 25 Shattuck St., Boston, Mass. *Associate Professor of Comparative Pharmacology.* (**3**, 1938)

Kreezer, George L., Ph.D. Washington Univ., St. Louis, Mo. *Assoc. Professor of Psychology.* (**1**, 1948)

Krehl, Willard A., Ph.D. Yale University, 333 Cedar Street, New Haven, Conn. *Assistant Professor of Nutrition.* (**2**, 1947)

Krichesky, Boris, Ph.D. Univ. of California, Los Angeles, Calif. *Assoc. Professor and Chairman, Dept. of Zoology.* (**1**, 1948)

Krop, Stephen, M.S., Ph.D. Medical Division, Army Chemical Center, Edgewood, Md. *Chief, Pharmacology Section.* (**3**, 1944)

Krueger, Albert Paul, M.D. University of California, Berkeley. *Professor of Bacteriology; and Lecturer in Medicine. Chairman, Department of Bacteriology; Director, Office of Naval Research Task V.* (**4**, 1930; **6**, 1937)

Krueger, Hugo M., Ph.D. Department of Zoology, Oregon State College, Corvallis, Oregon. *Prof. of Physiology.* (**1**, 1931; **3**, 1935)

Krumbhaar, Edward B., M.D., Ph.D. University of Pennsylvania Medical School, Philadelphia. *Professor of Pathology.* (**1R**, 1914; **4**, prior to 1920)

Kruse, Harry Dayton, M.D., Sc.D. Milbank Memorial Fund, 40 Wall St., New York City. (**2**, 1933)

Kruse, Theophile K., A.M., Ph.D. University of Pittsburgh Medical School, Pittsburgh, Pa. *Professor of Physiology and Pharmacology.* (**1**, 1919; **3**, 1920)

Kubicek, William G., Ph.D. Department of Physiology, University of Minnesota, Minneapolis. *Assistant Professor.* (**1**, 1947)

Kubie, Lawrence S., M.D. Yale University School of Medicine, New York City. *Clinical Professor of Psychiatry and Mental Hygiene.* (**4**, 1928)

Kuhn, Harry A., M.S., Ph.B. 3915 Fulton St., N.W., Washington, D. C. *Colonel, C. W. S., War Department; Executive Officer, C. W. Procurement District.* (**3**, 1927)

Kuhn, L. Roland, Ph.D. AMDR.GS, Army Medical Center, Washington 12, D. C. *Chief, Dept. of Bacteriology, Army Medical Dept. Research and Graduate School.* (**6**, 1939)

Kuizenga, Marvin H., M.Sc., Ph.D. The Upjohn Company, Kalamazoo, Mich. *Department Head, Pharmacology-Endocrinology.* (**2**, 1947)

Kunde, Margarete M., Ph.D., M.D. 30 N. Michigan Ave., Chicago, Ill. *Instructor in Medicine, Northwestern University Medical School; Clinical Assistant in Endocrinology, Cook County Hospital.* (**1**, 1924)

Kunitz, Moses, Ph.D. The Rockefeller Institute for Medical Research, Princeton, N. J. *Associate Member.* (**2**, 1947)

Kurotchkin, Timothy J., M.D. 156 Forest Ave., Pearl River, N. Y. *Bacteriologist.* (**6**, 1946)

Kurtz, Alton C., Ph.D. Department of Biochemistry, Medical School, University of Oklahoma, Oklahoma City. *Associate Professor.* (**2**, 1942)

Kuyper, Adrian C., M.S., Ph.D. Wayne University College of Medicine, Detroit 26, Mich. *As-*

sistant Professor of Physiological Chemistry. (**2,** 1946)

Kydd, David M., M.D. Yale University School of Medicine, New Haven, Conn. *Associate Professor of Medicine.* (**5,** 1934)

Kyker, Granvil C., Ph.D. Department of Biological Chemistry and Nutrition, University of North Carolina School of Medicine, Chapel Hill, N. C. *Associate Professor.* (**2,** 1947)

LaBelle, Annette, B.A. Grasslands Hospital, Valhalla, New York. (**1,** 1948)

Lackey, Robert W., M.S., Ph.D. Department of Physiology and Pharmacology, Southwestern Medical College, Dallas 4, Texas. *Professor of Physiology.* (**1,** 1947)

Lacorte, Jose G., M.D. Instituto Oswaldo Cruz, Rio de Janeiro, Brazil, S. A. *Director of the Virus Section of the Oswaldo Cruz Institute.* (**6,** 1946)

Lacy, G. R., M.D. University of Pittsburgh, Pittsburgh, Pa. *Professor of Bacteriology and Immunology.* (**4,** 1927)

Lalich, Joseph J., M.D. Dept. of Pathology, University of Wisconsin, 426 North Charter St., Madison 6, Wis. *Assistant Professor of Pathology.* (**4,** 1946)

Lamb, Alvin R., M.S., Ph.D. Experiment Station, Hawaiian Sugar Planters' Association, Honolulu. *Research Associate.* (**2,** 1923; **5,** 1934)

Lambert, Edward H., Ph.D., M.D. Mayo Foundation, Rochester, Minn. *Assistant Professor of Physiology.* (**1,** 1945)

Lambert, Robert A., M.D. Bricks Springs, Greensboro, Ala. (**4,** 1922)

Lambertsen, Christian J., M.D. Univ. of Pennsylvania, Philadelphia, Pa. *Asst. Professor of Pharmacology; Asso. in Medicine; Markle Scholar in Medical Science.* (**3,** 1948)

Lampen, J. Oliver, Ph.D. Washington University School of Medicine, St. Louis, Mo. *Asst. Prof. of Biological Chem.* (**2,** 1947)

Lamport, Harold, M.D. Yale University School of Medicine, New Haven, Conn. *Associate Professor of Physiology.* (**1,** 1943)

Lamson, Paul Dudley, M.D. Vanderbilt University Medical School, Nashville, Tenn. *Professor of Pharmacology.* (**1,** 1921; **3,** 1915)

Lancefield, Rebecca C., Ph.D. 66th St. and York Ave., New York City 21. *Associate Member, Rockefeller Institute for Medical Research.* (**6,** 1933)

Landis, Carney, Ph.D. Psychiatric Institute and Hospital, Columbia Unversity, 722 W. 168th St., New York City. *Principal Research Psychologist and Professor of Psychology.* (**1,** 1939)

Landis, Eugene Markley, Ph.D., M.D. Department of Physiology, Harvard Medical School, 25 Shattuck St., Boston, Mass. *George Higginson Professor of Physiology.* (**1,** 1928)

Landowne, Milton, M.D. 2650 Wisconsin Ave., N.W., Washington, D. C. (**1,** 1947)

Lands, Alonzo M., M.A., Ph.D. Sterling-Winthrop Research Institute, Rensselaer, N. Y. *Head, Pharmacology Section.* (**1,** 1942; **3,** 1947)

Lange, Carl, M.D. 371 Morris St., Albany, N. Y. *Associate Bacteriologist, Divisions of Laboratories and Public Health, New York State Department of Health.* (**6,** 1938)

Langley, Wilson D., Ph.D. University of Buffalo Medical School, Buffalo, N. Y. *Professor of Biochemistry.* (**2,** 1937)

Langworthy, Orthello R., M.A., M.D. Johns Hopkins Hospital, Baltimore, Md. *Associate Professor of Psychiatry, Johns Hopkins University.* (**1,** 1928)

Lardy, Henry A., M.S., Ph.D. Dept. of Biochemistry, University of Wisconsin, Madison 6, Wis. *Associate Professor.* (**2,** 1946)

Larrabee, Martin G., Ph.D. Johnson Foundation for Medical Physics, University of Pennsylvania, Philadelphia. *Associate Professor of Biophysics.* (**1,** 1940)

Larson, Carl L. M.D. Div. of Infectious Diseases, National Institutes of Health, Bethesda, Md. *Surgeon, USPHS.* (**6,** 1948)

Larson, Edward, Ph.D. University of Miami, Miami, Fla. *Professor of Physiology and Pharmacology.* (**1,** 1929; **3,** 1937)

Larson, Hardy W., A.M., Ph.D. Metropolitan Life Insurance Co., Biochemical Laboratory, 1 Madison Ave., New York City. *Research Chemist.* (**2,** 1937)

Larson, Paul S., Ph.D. Medical College of Virginia, Richmond. *Associate Professor of Research Pharmacology.* (**1,** 1939; **3,** 1947)

Lashley, K. S., M.S., Ph.D., D.Sc. Yerkes Laboratories, Orange Park, Fla. *Research Professor of Neuropsychology, Harvard University; Director, Yerkes Laboratories of Primate Biology, Inc. Member of the National Academy of Sciences.* (**1,** 1923)

Laskowski, M., Ph.D. Marquette University Medical School, Milwaukee 3, Wis. *Associate Professor of Biochemistry.* (**2,** 1944)

Last, Jules H., Ph.D., M.D. Univ. of Illinois College of Medicine, Chicago, Ill. *Asst. Professor of Pharmacology.* (**3,** 1948)

Lauffer, Max A., Jr., M.S., Ph.D. 307 Thaw Hall, University of Pittsburgh, Pittsburgh, Pa. *Research Professor.* (**2,** 1946)

Laug, E. P., M.A., Ph.D. Division of Pharmacology, Food and Drug Administration, 12th and C Sts. S.W., Washington 25, D. C. *Senior Pharmacologist.* (**2,** 1938; **3,** 1947)

Lauson, Henry D., Ph.D., M.D. The Rockefeller

Institute, 66th St. & York Ave., New York 21, N. Y. *Associate.* (**1,** 1946)

Lavine, T. F., Ph.D. Lankenau Hospital Research Institute, Philadelphia, Pa. *Research Chemist.* (**2,** 1938)

Lawrence, W. Sherwood, M.D. 906 Hazel St., Gridley, Calif. (**3,** 1944)

Lawson, Hampden, M.D., Ph.D. University of Louisville, Louisville, Ky. *Professor of Physiology.* (**1,** 1933)

Lawton, Alfred H., M.D., Ph.D. Veterans Administration, Bureau of Medicine and Surgery, Washington, D. C. (**3,** 1948)

Leake, Chauncey D., M.S., Ph.D. The University of Texas Medical Branch, Galveston. *Vice-President of the University of Texas in Charge of the Medical Program.* (**1,** 1923; **3,** 1924)

Leathem, James H., Ph.D. Rutgers University, New Brunswick, N. J. *Assistant Professor of Zoology.* (**1,** 1945)

Leathes, John Beresford, M.A., M.B., F.R.C.S., F.R.S. Westfield Ware Lane, Lyme Regis, Dorset, England. (**2,** 1909)

Lederer, Ludwig George, Ph.D., M.D. Pennsylvania Central Airlines, National Airport, Washington, D. C. *Medical Director.* (**1,** 1940)

Lee, Milton O., M.A., Ph.D. 2101 Constitution Ave., Washington 25, D. C. *Executive Secretary and Managing Editor, American Physiological Society; Federation Secretary.* (**1,** 1927; **5,** 1933)

Leese, Chester E., M.S., Ph.D. George Washington University School of Medicine, Washington, D. C. *Associate Professor of Physiology.* (**1,** 1934)

Lehman, Arnold J., Ph.D., M.D. Food and Drug Administration, Washington 25, D. C. *Chief, Division of Pharmacology.* (**3,** 1937)

Lehman, Robert A., M.S., Ph.D. New York University College of Medicine, 477 First Ave., New York City. *Instructor in Therapeutics.* (**3,** 1942)

Lehmann, Gerhard, M.D., Dr. Ing. Scientific Department, Hoffmann-La Roche, Nutley 10, N. J. *Pharmacologist.* (**3,** 1939)

Lehninger, Albert L., M.S, Ph.D. University of Chicago Medical School, Chicago, Ill. *Assistant Professor of Biochemistry in the Depts. of Biochemistry and Surgery.* (**2,** 1946)

Lehr, David, M.D. New York Medical College, Flower and Fifth Avenue Hospitals, Fifth Ave. at 105th Street, New York 29, N. Y. *Assistant Professor of Pharmacology.* (**3,** 1947)

Leichsenring, Jane M., Ph.D. Univ. of Minnesota, University Farm, St. Paul, Minn. *Professor of Nutrition.* (**5,** 1948)

Leimdorfer, Alfred, M.D. Department of Psychiatry, University of Illinois College of Medicine, Chicago 12. *Associate Professor.* (**1,** 1947)

Lein, Allen, B.A., M.A., Ph.D. Department of Physiology, Northwestern University Medical School, Chicago 11, Ill. *Physiologist.* (**1,** 1946)

Lenhart, Carl H., M.D. Lakeside Hospital, 2065 Adelbert Rd., Cleveland, O. *Oliver H. Payne Professor of Surgery, Western Reserve University.* (**1,** 1921)

Lennette, Edwin H., Ph.D., M.D. California State Dept. of Public Health, Berkeley, Calif. *Director, Viral and Rickettsial Disease Laboratory.* (**4,** 1941; **6,** 1947)

Leonard, Clifford Shattuck, M.S., Ph.D. 87 Oxford Rd., Longmeadow, Springfield, Mass. Yale University Medical School, New Haven, Conn. *Technical Associate, Chemical-Biological Coordination Center, National Research Council.* (**3,** 1927)

Leonards, Jack Ralph, Ph.D. Western Reserve Univ., Cleveland, Ohio. *Asst. Professor of Clinical Chemistry.* (**2,** 1948)

Lepkovsky, Samuel, M.S., Ph.D. University of California, Poultry Division, Berkeley. *Professor.* (**2,** 1933; **5,** 1933)

L'Esperance, Elise L., M.D. 2 East 61st St., New York, N. Y. *Director, Strong Cancer Precaution Clinic, Memorial Hospital, and New York Infirmary.* (**6,** 1920)

Leverton, Ruth M., Ph.D. Department of Home Economics, University of Nebraska, Lincoln. *Associate Professor Human Nutrition Research.* (**5,** 1942)

Levin, Louis, Ph.D. College of Physicians and Surgeons, Columbia Univ., 630 W. 168th St., New York 32, N. Y. *Assistant Professor of Anatomy.* (**2,** 1939)

Levine, Harold, Ph.D. 1037 McKinley Ave., Milwaukee, Wis. *Biochemist, Research Labs., Pabst Brewing Co.* (**2,** 1933; **5,** 1933)

Levine, Milton, M.S., Ph.D. Inst. of Experimental Medicine, College of Medical Evangelists, 312 N. Boyle Ave., Los Angeles, Calif. *Assoc. Director, Inst. of Experimental Medicine.* (**6,** 1942)

Levine, Philip, M.A., M.D., F.A.C.P. Ortho Research Foundation, Raritan, N. J. *Director, Biologic Division.* (**6,** 1925)

Levine, Rachmiel, M.D., C.M. Michael Reese Hospital, Chicago, Ill. *Acting Director, Department of Metabolic Research. Professorial Lecturer in Physiology, University of Chicago.* (**1,** 1942)

Levine, Samuel Z., M.D., New York Hospital, 525 E. 68th St., New York City. *Professor of Pediatrics, Cornell University Medical College; Pediatrician-in-Chief, New York Hospital.* (**5,** 1933)

Levine, Victor Emanuel, A.M., Ph.D., M.D. Creighton University School of Medicine,

Omaha, Nebr. *Professor of Biological Chemistry and Nutrition.* (2, 1936)

Levinson, Samuel A., Ph.D., M.D. University of Illinois College of Medicine, 808 S. Wood St., Chicago. *Professor of Pathology; Director Laboratories, Research & Educational Hospital.* (4, 1938)

Levison, Louis A., M.D. 421 Michigan St., Toledo, O. *Physician to Toledo Hospital; Physician to St. Vincent Hospital.* (6, 1916)

Levy, Milton, Ph.D. 477 First Ave., New York City. *Associate Professor of Chemistry, New York University College of Medicine.* (2, 1933)

Levy, Robert L., M.D. 730 Park Ave., New York City. *Professor of Clinical Medicine, College of Physicians and Surgeons, Columbia University.* (3, 1915)

Lewey, F. H., M.D. 3400 Spruce St., Philadelphia 4, Pa. *Professor of Neuroanatomy, University of Pennsylvania Graduate School of Medicine; Associate in Neuropathology and Neurosurgery, Medical School.* (1, 1937)

Lewis, Gladys Kinsman, M.A., Ph.D. 401 S. Lafayette St., Denver 9, Colo. (5, 1944)

Lewis, Howard Bishop, Ph.D. Medical School, University of Michigan, Ann Arbor. *Professor of Biological Chemistry.* (1, 1925; 2, 1913; 5, 1933)

Lewis, James C., M.S., Ph.D. Western Regional Research Laboratory, U. S. Dept. of Agriculture, Albany, Calif. *Biochemist.* (2, 1946)

Lewis, Julian Herman, M.D. 4750 Champlain Ave., Chicago, Ill. *Associate Professor of Pathology, University of Chicago; Member of the Otho S. A. Sprague Memorial Institute.* (4, 1924)

Lewis, Lena A., A.B., M.A., Ph.D. Cleveland Clinic, Euclid Ave. & E. 93rd St., Cleveland 6, Ohio. *Research Staff.* (1, 1946)

Lewis, Robert C., Ph.D. 4200 E. 9th Ave., Denver, Colo. *Professor of Biochemistry, School of Medicine, University of Colorado.* (2, 1931; 5, 1933)

Li, Choh Hao, Ph.D. 4596 Life Science Bldg., University of California, Berkeley. *Associate Professor of Experimental Biology.* (2, 1944).

Li, Richard C., M.D. National Peking University College of Medicine, Peiping, China. (3, 1941)

Libby, Raymond L., M.S., Ph.D. Veterans Administration, Wilshire & Sawtelle Blvds., Los Angeles 25, Calif. *Assoc. Professor of Radio Biology, U.C.L.A. Medical Sch.; Chief of Isotope Section, Veterans Hospital, Los Angeles.* (6, 1938)

Liberson, W. T., M.D. Institute of Living, Hartford, Conn. *Neurophysiologist.* (1, 1948)

Libet, Benjamin, Ph.D. Kabat-Kaiser Institute for Neuromuscular Rehabilitation, Permanente Hospital, Vallejo, Calif. *Staff Physiologist.* (1, 1942)

Licklider, J. C. R., Ph.D. Harvard Univ., Psycho-Acoustic Lab., Cambridge, Mass. *Lecturer in Psychology.* (1, 1948)

Liddell, Howard S., A.M., Ph.D. Cornell University, Ithaca, N. Y. *Professor of Psychology.* (1, 1925)

Lieb, Charles C., M.D. 630 W. 168th St., New York City. *Hosack Professor of Pharmacology, College of Physicians and Surgeons, Columbia University.* (1R, 1936; 3, 1915)

Lieberman, Arnold L., M.D., Ph.D. 328 No. Country Club Road, Tucson, Ariz. (1, 1934)

Lieberman, Seymour, Ph.D. Sloan-Kettering Institute, New York City. *Associate.* (2, 1948)

Lifson, Nathan, M.D., Ph.D. 617 Kenwood Parkway, Minneapolis, Minn. *Associate Professor of Physiology, University of Minnesota Medical School.* (1, 1944)

Lightbody, Howard D., M.S., Ph.D. QM Food and Container Institute for the Armed Forces, 1849 West Pershing Road, Chicago 9, Ill. *Director, Food Labs.* (2, 1936)

Ligon, Edgar William, Jr., Ph.D. Production and Marketing Administration, Insecticide Division, Agriculture Bldg. Washington, D. C. (3, 1948)

Lilienthal, Joseph L., Jr., M.D. Johns Hopkins Hospital, Baltimore 5, Md. *Associate Professor of Medicine.* (1, 1945)

Lillie, Ralph Stayner, Ph.D., Sc.D. Physiological Laboratories, University of Chicago, Chicago, Ill. *Professor Emeritus of Physiology.* (1R, 1905; 2, 1913)

Lillie, R. D., M.D. Chief Pathology Laboratory, National Institute of Health, Bethesda, Md. *Medical Director, U. S. P. H. S.* (4, 1941)

Lim, Robert Kho-Seng, Ph.D., D.Sc. F.R.S.E. Academia Sinica, 320 Yo Yang Road, Shanghai, China. *Director, Institute of Medicine.* (1, 1923)

Lindsley, Donald B., M.A., Ph.D. Dept. of Psychology, Northwestern Univ., Evanston, Ill. *Professor of Psychology.* (1, 1937)

Linegar, Charles R., Ph.D. E. R. Squibb and Sons, Biological Laboratory, New Brunswick, N.J. *Chief, Biological Development and Control Laboratory.* (3, 1938)

Lineweaver, Hans, Ph.D. Western Regional Research Laboratory, U. S. Department of Agriculture, Albany, Calif. *Head, Poultry Products Div.* (2, 1941)

Link, Karl Paul, Ph.D. Biochemistry Building, University of Wisconsin, Madison. *Professor of Biochemistry.* (2, 1931)

Lintz, William, M.D. 36 Plaza St., Brooklyn, N. Y. *Late Professor of Immunology and Bacteriology and Clinical Professor of Medicine, Long Island College of Medicine.* (6, 1920)

Lipman, Mrs. Miriam O., A.M. Presbyterian Hospital, 620 W. 168th St., New York City. *Research Assistant, Edward Daniels Faulkner Arthritis Clinic.* (6, 1931)

Lipmann, Fritz, M.D., Ph.D. Biochemical Research Laboratory, Massachusetts General Hospital, Boston. *Head; Assoc. Biochemist, Harvard Med. Sch.* (**2,** 1941)

Lippincott, Stuart W., M.D. University of Washington School of Medicine, Seattle, Wash. *Chairman, Department of Pathology.* (**4,** 1947)

Lipton, Morris A., Ph.D., M.D. 5645 S. Maryland Ave., Chicago 37, Ill. *Research Associate in Medicine, University of Chicago.* (**2,** 1946)

Lisco, Hermann, M.D. Argonne National Laboratory, Chicago 8, Ill. On leave from Harvard. (**4,** 1947)

Litchfield, John T., Jr., M.D. American Cyanamid Co., 1937 W. Main St., Stamford, Conn. *Director of Pharmacology.* (**3,** 1940)

Little, James Maxwell, M.S., Ph.D. Bowman Gray School of Medicine of Wake Forest College, Winston-Salem, N. C. *Associate Professor of Physiology and Pharmacology.* (**1,** 1942; **3,** 1947)

Livingston, Alfred E., Ph.D. Temple University School of Medicine, Philadelphia, Pa. *Professor of Pharmacology.* (**1,** 1917; **3,** 1920)

Lloyd, David P. C., D.Ph. Rockefeller Inst. for Medical Research, 66th St. and York Ave., New York 21, N. Y. *Associate Member.* (**1,** 1939)

Locke, Arthur P., Ph.D. Zonite Products Corporation, New Brunswick, N. J. *Chief Research Chemist.* (**6,** 1926)

Lodholz, Edward, M.D. Medical Laboratories, University of Pennsylvania, Philadelphia. *Emeritus Professor of Physiology, Graduate School of Medicine.* (**1,** 1913)

Loeb, Leo, M.D. Washington University Medical School, St. Louis, Mo. *Professor Emeritus of Pathology; Member, National Academy of Sciences.* (**1R,** 1907; **4,** 1913)

Loew, Earl R., M.S., Ph.D. Boston University School of Medicine, Boston 18, Mass. (**1,** 1940; **3,** 1946)

Loewe, W. S., M.D. Department of Pharmacology, University of Utah School of Medicine, Salt Lake City 1. (**3,** 1936)

Logan, Milan A., Ph.D. University of Cincinnati School of Medicine, Cincinnati, O. *Professor of Biological Chemistry.* (**2,** 1936)

Long, C. N. H., M.Sc., D.Sc., M.D. Yale University, New Haven, Conn. *Dean, Sch. of Med. and Sterling Prof. of Physiological Chemistry.* (**1,** 1935; **2,** 1927)

Long, Esmond R., M.D. 7th and Lombard Sts., Philadelphia, Pa. *Director, Henry Phipps Institute; Professor of Pathology, University of Pennsylvania.* (**4,** 1930)

Long, Perrin Hamilton, M.D. The Johns Hopkins University, 615 N. Wolfe St., Baltimore, Md. *Professor of Preventive Medicine; Colonel, M.C.* (**3,** 1940)

Longcope, Warfield T., M.D. Cornhill Farm, Lee, Mass. (**3R,** 1921; **4,** 1913; **6R,** 1923)

Longenecker, Herbert Eugene, M.S., Ph.D. University of Pittsburgh, Pittsburgh, Pa. *Dean, the Graduate School and Professor of Biochemistry.* (**2,** 1940; **5,** 1945)

Longwell, Bernard B., M.S., Ph.D. 4200 East 9th Ave., Denver 7, Colo. *Associate Professor of Biochemistry, Univ. of Colorado, School of Medicine.* (**2,** 1946)

Loomis, Ted A. Ph.D., M.D. Univ. of Washington School of Medicine, Seattle, Wash. *Asst. Professor of Pharmacology.* (**3,** 1948)

Looney, Joseph M., M.D. 75 Park St., West Roxbury, Mass. *Director of Laboratories, V.A. Hospital, West Roxbury, Mass.* (**2,** 1922)

Loosli, Clayton Garr, M.D., University of Chicago, Chicago, Ill. *Associate Professor of Medicine.* (**4,** 1940)

Loosli, J. K., M.S., Ph.D. Animal Nutrition Laboratory, Cornell University, Ithaca, N. Y. *Assoc. Prof. of Animal Nutr. and Assoc. Animal Nutritionist in Exp. Sta.* (**5,** 1944)

Lorber, Victor, M.D., Ph.D. Dept. of Biochemistry, Western Reserve Univ. School of Medicine, Cleveland, Ohio. *Associate Professor.* (**1,** 1944)

Lorente de Nó, Rafael, M.D. The Rockefeller Institute for Medical Research, 66th St. and York Ave., New York City. *Member.* (**1,** 1937)

Lorenz, Egon, Ph.D. National Cancer Institute, Bethesda, Md. *Biophysicist.* (**4,** 1942)

Loring, H. S., M.A., Ph.D. Stanford University, Calif. *Professor of Biochemistry.* (**2,** 1938)

Lotspeich, William D., M.D. Syracuse Univ. Col. of Med., Syracuse, N. Y. *Instr. in Physiology.* (**1,** 1948)

Loveless, Mary H., M.D. New York Hospital, 525 E. 68th St., New York City. *Research Associate, Cornell Medical School; Physician to Out-Patients, New York Hospital.* (**6,** 1941)

Lowell, Francis C., M.D. 65 East Newton St., Boston, Mass. *Assoc. Professor of Medicine, Boston Univ. School of Medicine.* (**6,** 1942)

Lowenbach, Hans, M.D. Duke University Medical School, Durham, N. C. *Associate Professor of Neuropsychiatry and Physiology.* (**1,** 1946)

Lowry, Oliver H., M.D., Ph.D. Washington University School of Medicine, 4580 Scott Ave., St. Louis 10, Mo. *Professor of Pharmacology and Head of Department.* (**2,** 1942)

Lubinski, Herbert, M.D. Jewish General Hospital, 3755 St. Catherine Rd., Montreal, Canada. *Bacteriologist and Serologist.* (**6,** 1941)

Lucas, Colin C., M.A.Sc., Ph.D. Banting and Best Dept. of Medical Research, University of Toronto, Toronto, Canada. *Associate Professor.* (**2,** 1946)

Lucas, George H. W., M.A., Ph.D. University of Toronto, Toronto, Ontario, Canada. *Professor of Pharmacology.* (**2,** 1925; **3,** 1928)

Luck, James Murray, Ph.D. Stanford University, Stanford University, Calif. *Professor of Biochemistry.* (**2,** 1925)

Lucké, Balduin, M.D. 141 Montgomery Ave., Bala-Cynwyd, Pa. *Professor of Pathology, University of Pennsylvania Medical School.* (**4,** 1924)

Luckhardt, Arno Benedict, M.S., Ph.D., M.D., Sc.D., LL.D. University of Chicago, Chicago, Ill. *The Dr. Wm. Beaumont Distinguished Service Professor of Physiology.* (**1,** 1911)

Ludewig, Stephan, Ph.D. University of Virginia School of Medicine, University Station, Charlottesville. *Associate Professor of Biochemistry.* (**2,** 1941)

Luduena, Froilan P., Ph.D., M.D. Sterling-Winthrop Research Institute, Rensselaer, N. Y. (**3,** 1941)

Lukens Francis D. W., M.D. University of Pennsylvania, 809 Maloney Clinic, 36th and Spruce Sts., Philadelphia. *Assistant Professor of Medicine and Director, George S. Cox Medical Research Institute.* (**1,** 1938)

Lund, E. J., Ph.D. Department of Zoology and Physiology, University of Texas, Austin. *Professor of General Physiology.* (**1,** 1930)

Lundgren, Harold P., Ph.D. Western Regional Research Laboratory, U.S.D.A., Albany 6, Calif. *Senior Chemist.* (**2,** 1942)

Lundy, John Silas, M.D. The Mayo Foundation, Rochester, Minn. *Chief of Section on Anesthesia.* (**3,** 1935)

Lurie, Max B., M.D. Henry Phipps Institute, 7th and Lombard Sts., Philadelphia, Pa. *Associate Professor of Experimental Pathology.* (**4,** 1934; **6,** 1930)

Lutz, Brenton R., Ph.D. Boston University, 688 Boylston St., Boston, Mass. *Professor of Biology.* (**1,** 1925)

Luyet, Basile J., Sc.D. (Biol.), Sc.D. (Physics). St. Louis University School of Medicine, St. Louis, Mo. *Professor of Biology.* (**1,** 1936)

Lyall, Harold W., A.M., Ph.D. Division of Laboratories and Research, New York State Department of Health, Albany. *Assistant Director in charge of Antitoxin, Serum, and Vaccine Laboratories.* (**6,** 1937)

Lyman, Carl M., A.M., Ph.D. A and M College of Texas, College Station. *Professor of Biochemistry and Nutrition.* (**2,** 1940)

Lyman, John F., Ph.D. Townshend Hall, Ohio State University, Columbus. *Professor of Agricultural Chemistry.* (**2,** 1920; **5,** 1933)

Maaske, Clarence A., Ph.D. University of Colorado School of Medicine, 4200 E. 9th Ave., Denver, Colo. *Associate Professor of Physiology and Pharmacology.* (**1,** 1945)

Macallum, A. Bruce, M.D., Ph.D. Medical School, University of Western Ontario, London Ont., Canada. *Res. Professor of Biochemistry.* (**2,** 1914)

MacArthur, Edith H., A.M., Ph.D. RFD #1, Fort Ann, New York. (**5,** 1933)

MacCardle, Ross C., Ph.D. National Cancer Institute, Bethesda, Md. *Senior Cytologist.* **4,** 1948)

MacCorquodale, D. W., M.S., Ph.D. Abbott Laboratories, North Chicago, Ill. *Head, Biochemical Research.* (**2,** 1934)

MacFadyen, Douglas A., M.D. Presbyterian Hospital, 1753 W. Congress St., Chicago, Ill. *Chairman, Rush Dept. of Biochemistry.* (**2,** 1942)

Macht, David Israel, M.D., Phar. D. (hon.), Litt.D. Sinai Hospital, Baltimore, Md. *Research Pharmacologist, Sinai Hospital Laboratories, and Consultant Pharmacologist, Sinai Hospital.* (**1R,** 1916; **3,** 1915)

Macht, Martin B., Ph.D. Climatic Res. Lab., Lawrence, Mass. *Res. Physiologist.* (**1,** 1948)

MacKay, Eaton M., M.D. The Scripps Metabolic Clinic, La Jolla, Calif. (**1,** 1930)

Mackenzie, Cosmo G., Sc.D. Dept. of Biochemistry, Cornell Univ. Med. College, 1300 York Ave., New York 21, N. Y. *Assistant Professor.* (**1,** 1946; **2,** 1946; **5,** 1942)

MacLeod, Colin M., M.D. New York University College of Medicine, 477 First Ave., New York City. *Professor of Bacteriology.* (**6,** 1937)

MacLeod, Florence L., M.A., Ph.D. University of Tennessee, Knoxville. *Professor of Nutrition.* (**2,** 1927; **5,** 1933)

MacLeod, Grace, M.A., Ph.D. 106 Morningside Drive, New York City. *Professor Emeritus of Nutrition, Teachers College, Columbia University.* (**2,** 1924; **5,** 1933)

MacLeod, John, M.S., Ph.D. Cornell University Medical College, 1300 York Ave., New York City. *Assistant Professor of Anatomy.* (**1,** 1942)

MacNabb, Andrew L., V.S., B.V.Sc., F.A.P.H.A. Guelph, Ontario, Canada. *Principal, Ontario Veterinary College.* (**6,** 1941)

MacNider, William deB., M.D., Sc.D., LL.D University of North Carolina, Chapel Hill. *Kenan Research Professor of Pharmacology; Member, National Academy of Sciences.* (**1,** 1912; **2,** 1912; **3,** 1909; **4,** prior to 1920)

MacPherson, Catherine F. C., M.Sc., Ph.D. 236 Brock Ave. N., Montreal, Quebec, Canada. (**2,** 1947)

MacPhillamy, Betty Bowser, M.S., Ph.D. 35 Beekman Rd., Summit, N. J. *Bacteriologist.* (**6,** 1944)

Madden, Sidney C., M.D. Brookhaven, Long Island, N. Y. (**4,** 1939)

Maddock, Stephen, M.D. Boston City Hospital, Boston, Mass. *Director of Surgical Research*

Laboratory; Assistant Professor of Surgery, Tufts Medical School. (**4,** 1931)

Madsen, Louis L., Ph.D. Dept. of Animal Husbandry, Utah State Agricultural College, Logan. *Nutritionist.* (**5,** 1940)

Magath, Thomas B., M.S., Ph.D., M.D. Mayo Clinic, Rochester, Minn. *Associate Professor of Clinical Bacteriology and Parasitology, University of Minnesota, Mayo Foundation; Consultant Physician in Clinical Laboratories, Mayo Clinic.* (**1,** 1928)

Magill, Thomas P., M.D. Long Island College of Med., Brooklyn, N. Y. *Prof. of Bacteriology.* (**6,** 1937)

Magoun, Horace W., Ph.D. Northwestern University Medical School, 303 E. Chicago Ave., Chicago, Ill. *Professor of Microscopic Anatomy.* (**1,** 1937)

Mahon, Eleanor Conway, Ph.D. Iron River, Mich. (**4,** 1940)

Main, Rolland J., Ph.D. Eaton Laboratories, Inc., Eaton Ave., Norwich, N. Y. (**1,** 1936)

Maison, George L., M.S., M.D. Boston University Medical School, 80 E. Concord St., Boston 18, Mass. *Professor and Head, Pharmacology Dept.* (**1,** 1939; **3,** 1948)

Major, Randolph T., M.Sc., Ph.D. Merck & Co., Inc., Rahway, N. J. *Vice President.* (**2,** 1942)

Malkiel, Saul. Northwestern Univ. Med. Sch., Evanston, Ill. *Asst. Professor of Medicine; Director, Allergy Res. Lab.* (**6,** 1948)

Mallory, G. Kenneth, M.D. Mallory Institute of Pathology, Boston City Hospital, Boston, Mass. *Professor.* (**4,** 1940)

Mallory, Tracy B., M.D. Massachusetts General Hospital, Boston. *Director of Pathology and Bacteriology; Assistant Professor of Pathology, Harvard Medical School.* (**4,** 1937)

Maloney, Arnold H., Ph.D., M.D., LL.D. Howard University School of Medicine, Washington, D. C. *Professor and Head of Department of Pharmacology.* (**3,** 1932)

Maltaner, Frank, Ph.D. 388 New Scotland Ave., Albany, N. Y. *Associate Biochemist, Division of Laboratories and Research, New York State Department of Health.* (**6,** 1920)

Maluf, N. S. Rustum, M.S., Ph.D. 101 W. Chestnut St., Louisville 2, Ky. (**1,** 1942)

Man, Evelyn B., Ph.D. 333 Cedar St., New Haven, Conn. *Assistant Professor in the Biochemistry Laboratory, Dept. of Psychiatry, Yale University School of Medicine.* (**2,** 1936)

Manery, Jeanne Forest, M.A., Ph.D. Medical School, University of Toronto, Toronto, Ont., Canada. *Demonstrator in Biochemistry.* (**1,** 1937)

Mangun, George H., Ph.D. Henry Ford Hospital, Detroit, Mich. *Sr. Assoc. in Clin. Chem.* (**2,** 1947)

Mann, Frank C., M.A., M.D., Sc.D., LL.D. Mayo Clinic, Box 256, Rochester, Minn. *Director, Division of Experimental Medicine; Professor of Experimental Medicine, Mayo Foundation.* (**1,** 1916; **3,** 1923; **4,** 1924)

Manning, G. W., M.D. 20 Woodington Ave., Toronto, Ontario, Canada. *Medical Officer in Charge, No. 2 R.C.A.F. Research Unit.* (**1,** 1944)

Manville, Ira Albert, M.A., M.D., Ph.D. 811 N. W. 19th Ave., Portland 9, Ore. (**1,** 1933)

Manwaring, Wilfred H., M.D. Stanford University, Palo Alto, Calif. *Professor Emeritus of Bacteriology and Experimental Pathology.* (**4,** prior to 1920; **6,** 1917)

Marcus, Stanley, Ph.D. Univ. of Michigan Hospital, Rackham Arthritis Res. Unit, Ann Arbor, Mich. *Research Associate.* (**6,** 1948)

Marine, David, A.M., M.D. 18 Baltimore Ave., Rehoboth, Del. (**1R,** 1910; **4,** 1913)

Markee, Joseph E., Ph.D. Duke University School of Medicine, Durham, N. C. *Professor of Anatomy.* (**1,** 1945)

Markowitz, J., M.D., Ph.D. University of Toronto School of Medicine, Toronto, Ont., Canada. *Research Associate in Physiology.* (**1,** 1929)

Marmont, George H., Ph.D. Institute of Radiobiology and Biophysics, University of Chicago, Chicago 37, Ill, *Assistant Professor of Physiology.* (**1,** 1941)

Marmorston, Jessie. 416 N. Bedford Drive, Beverly Hills, Calif. *Asst. Professor of Medicine, Univ. Southern California Staff, County Hospital and Cedars of Lebanon Hospital.* (**6,** 1932)

Marrazzi, Amedeo S., M.D. Medical Division, Army Chemical Center, Edgewood, Md. *Chief, Toxicology Section.* (**3,** 1938)

Marsh, David F., A.B., M.S., Ph.D. Dept. of Pharmacology, West Virginia University, Morgantown, W. Va. *Head and Associate Professor of Pharmacology.* (**3,** 1946)

Marsh, Gordon, Ph.D. State University of Iowa, Iowa City. *Associate Professor of Zoology.* (**1,** 1944)

Marsh, M. Elizabeth, M.S., Ph.D. Killian Research Laboratories, 49 W. 45th St., New York City. *Assistant Director.* (**1,** 1929; **5,** 1933)

Marshak, Alfred Gordon, M.A., Ph.D. New York University, College of Medicine, New York City. *Research Associate.* (**1,** 1940)

Marshall, Eli Kennerly, Jr., Ph.D., M.D., LL.D. Johns Hopkins Medical School, Baltimore, Md. *Professor of Pharmacology and Experimental Therapeutics: Member, National Academy of Sciences.* (**1,** 1915; **2,** 1913; **3,** 1915)

Marshall, Louise Hanson, Ph.D. Laboratory of

Physical Biology, Natl. Insts. of Health, Bethesda, Md. *Physiologist.* (**1,** 1946)

Marshall, Wade H., Ph.D. National Institutes of Health, Bethesda, Md. *Research Fellow, Laboratory of Physical Biology.* (**1,** 1937)

Martin, Arthur W., Jr., Ph.D. Physiology Hall, University of Washington, Seattle. *Associate Professor of Physiology.* (**1,** 1944)

Martin, Donald S., M.D. Duke University School of Medicine, Durham, N. C. *Professor of Preventive Medicine and Public Health;* Duke Hospital, *Associate Professor of Bacteriology and Associate in Medicine.* (**6,** 1943)

Martin, Foster N., Jr. Ph.D., M.D. Department of Pharmacology, Tulane University Medical School, P.O. Station 20, New Orleans, La. *Assistant Professor of Pharmacology.* (**3,** 1947)

Martin, Stephens J., M.A., Ph.D. St. Francis Hospital, Hartford, Conn. (**1,** 1933)

Mason, Edward C., M.D., Ph.D. University of Oklahoma School of Medicine, Oklahoma City. *Professor of Physiology.* (**1,** 1935)

Mason, Eleanor Dewey, A.B., A.M., Ph.D. Dept. of Physiology and Nutrition, Women's Christian College, Cathedral P.O., Madras, India. *Professor of Physiology and Nutrition.* (**1,** 1946)

Mason, Herman C. 3322 W. Polk St., Chicago, Ill. *Consulting Bacteriologist and Immunologist.* (**6,** 1948)

Mason, Harold L., M.A., Ph.D. Mayo Clinic, Rochester, Minn. *Professor of Physiological Chemistry, The Mayo Foundation.* (**2,** 1941)

Mason, Karl Ernest, Ph.D. The University of Rochester, School of Medicine and Dentistry, Rochester, N. Y. *Professor of Anatomy.* (**5,** 1941)

Mason, Morton F., Ph.D. Parkland Hospital, Oak Lawn Ave., Dallas, Texas. *Professor of Pathological Chemistry and Experimental Medicine, Southwestern Medical College.* (**2,** 1938)

Massengale, Oliver N., Ph.D. Mead Johnson & Co., Research Laboratory, Evansville, Ind. *Research Biochemist.* (**2,** 1937)

Masson, Georges M. C., Ph.D. Cleveland Clinic Foundation, Research Division, Cleveland, Ohio. (**1,** 1944)

Mathews, Albert P., Ph.D., D.Sc. (hon.). Marine Biological Laboratory, Woods Hole, Mass. *Emeritus Carnegie Professor of Biochemistry, Univ. of Cincinnati.* (**1R,** 1898; **2,** 1906)

Matson, Gustave A., Ph.D. Latter Day Saints Hospital Blood Bank, Salt Lake City 3, Utah. *Seroligist and Bacteriologist; Director of Blood Bank.* (**6,** 1946)

Matthews, Samuel A., Ph.D. Williams College, Williamstown, Mass. *Professor of Biology.* (**1,** 1948)

Mattill, Henry A., A.M., Ph.D. State University of Iowa, Iowa City. *Professor and Head of Department of Biochemistry.* (**1,** 1913; **2,** 1909; **5,** 1933)

Mattis, Paul A., B.S., D.Sc. Atomic Energy Medical Research Project, Western Reserve University, Cleveland, Ohio. *Section Chief, Pharmacology.* (**3,** 1946)

Maurer, Frank W., Ph.D. 301 Lake Ave., Newton Highlands 61, Mass. (**1,** 1941)

Mautz, Frederick R., M.D. Western Reserve School of Medicine, Cleveland 6, O. *Assistant Professor of Surgery.* (**1,** 1945)

Maver, Mary E., Ph.D. National Cancer Institute, Bethesda 14, Md. *Senior Biochemist.* (**2,** 1947)

Mavor, James Watt, Ph.D. 8 Gracewood Park, Cambridge, Mass. (**1,** 1930)

Maxfield, Mary E., A.M., Ph.D. University of Tennessee Medical College, Dept. of Pharmacology, Memphis, Tenn. (**1,** 1947)

Mayer, Manfred M., Ph.D. 1739 Eutaw Place, Baltimore, Md. *Assoc. Professor of Bacteriology, Johns Hopkins Hospital, School of Hygiene.* (**6,** 1946)

Mayerson, Hymen S., Ph.D. Tulane University School of Medicine, Station 20, New Orleans, La. *Professor of Physiology and Head of Dept. of Physiology.* (**1,** 1928)

Maynard, L. A., Ph.D., Sc.D. Cornell University, Ithaca, N. Y. *Professor of Nutrition and Biochemistry; Director, School of Nutrition; Member National Academy of Sciences.* (**2,** 1930; **5,** 1933)

Mazur, Abraham, Ph.D. College of the City of New York, 140th St. and Convent Ave., New York City, *Asst. Professor.* (**2,** 1944)

McCann, William S., M.D., D.Sc. (Hon.) University of Rochester, School of Medicine, Rochester, N. Y. *The Charles A. Dewey Professor of Medicine.* (**2,** 1923; **5,** 1933)

McCarrell, June D. Department of Biology, Hood College, Frederick, Md. (**1,** 1942)

McCarty, Maclyn, M.D. 66th Street and York Avenue, New York 21, N. Y. *Associate,* Rockefeller Institute for Medical Research. (**6,** 1947)

McCawley, Elton Leeman, Ph.D. Yale Medical School, New Haven, Conn. *Instructor in Pharmacology.* (**3,** 1944)

McCay, Clive M., M.S., Ph.D. Animal Nutrition Laboratory, Dairy Building, Cornell University, Ithaca, N. Y. *Professor of Nutrition.* (**2,** 1929; **5,** 1933)

McChesney, Evan William, Ph.D. Ladox Laboratories, Inc., 2 Vine St., Philadelphia, Pa. (**1,** 1944)

McClellan, Walter S., M.D. Saratoga Spa, Saratoga Springs, N. Y. *Medical Director; Associate Professor of Medicine, Albany Medical College.* (**1,** 1931)

McClendon, J. F., M.S., Ph.D. Route 1, Box 383, Trooper Road, Norristown, Pa. *Research Pro-*

fessor of Physiology, Hahnemann Medical College. (**1**, 1910; **2**, 1914; **5**, 1935)

McClung, L. S. Indiana Univ., Bloomington, Ind. *Chairman and Assoc. Professor, Dept. of Bacteriology.* (**6**, 1948)

McCollum, Elmer Verner, Ph.D., Sc.D., LL.D. Johns Hopkins University, Baltimore, Md. *Professor Emeritus of Biochemistry; Member, National Academy of Sciences.* (**2**, 1910; **5**, 1933)

McCollum, Ernestine Becker, M.A., Johns Hopkins University, School of Hygiene, Baltimore 5, Md. *Assistant Professor of Biochemistry.* (**5**, 1938)

McCouch, Grayson Prevost, M.D. University of Pennsylvania, Philadelphia. *Assistant Professor of Physiology.* (**1**, 1925)

McCouch, Margaret Sunwalt, M.S., Ph.D. University of Pennsylvania Medical School, Philadelphia 4. (**1**, 1934)

McCoy, Richard H., Ph.D. Univ. of Pittsburgh, Pittsburgh, Pa. *Assoc. Research Professor of Chemistry.* (**5**, 1948)

McCrea, Forrest D., Ph.D. Duke University School of Medicine, Durham, N. C. *Associate Professor of Physiology and Pharmacology.* (**1**, 1929; **3**, 1937)

McCrudden, Francis H., M.D. 19 Stoneleigh Road, West Newton, Mass. *Assistant Medical Director, New England Mutual Life Insurance Co.* (**2**, 1906)

McCullagh, D. Roy, Ph.D., FIC. 86 Orange St., Bloomfield, N. J. *Director, Dept. of Biochemistry Schering Corp.* (**2**, 1932)

McCulloch, Warren Sturgis, M.A., M.D. University of Illinois, College of Medicine, 912 S. Wood St., Chicago. *Associate Professor of Psychiatry.* (**1**, 1936)

McCutcheon, Morton, M.D. University of Pennsylvania Medical School, Philadelphia. *Professor of Pathology.* (**4**, 1925)

McDonald, Francis Guy, M.S., Ph.D. Research Laboratory, Mead Johnson & Co., Evansville, Ind. *Assistant Director of Research.* (**2**, 1936; **5**, 1947)

McElroy, L. W. Dept. of Animal Science, University of Alberta. Edmonton, Canada. *Associate Professor of Animal Husbandry.* (**5**, 1944)

McElroy, William D., Ph.D. Dept. of Biology, Johns Hopkins University, Baltimore, Md. *Assistant Professor of Biology.* (**1**, 1945)

McEllroy, William Swindler, M.D. School of Medicine, University of Pittsburgh, Pittsburgh, Pa. *Professor of Physiological Chemistry; Dean, School of Medicine.* (**2**, 1919)

McFarland, Ross A., Ph.D. Harvard University, School of Public Health, Boston, Mass. (**1**, 1943)

McFarlane, William Douglas, Ph.D. 496 Queen St., E., Toronto, Canada. *Director of Research, Canadian Breweries, Ltd.* (**2**, 1933)

McGinty, Daniel A., M.A., Ph.D. Parke, Davis & Co., Detroit, Mich. *Research Physiologist.* (**1**, 1925)

McGuigan, Hugh Alister, Ph.D., M.D. Univ. of Illinois College of Medicine, Chicago. *Emeritus Professor of Pharmacology.* (**1R**, 1907; **2**, 1906; **3R**, 1913)

McHargue, J. S., M.S., Ph.D., D.Sc. Department of Chemistry, Kentucky Agricultural Experiment Station, University of Kentucky, Lexington. *Emeritus Member.* (**2**, 1927)

McHenry, E. W., M.A., Ph.D., F.R.S.C. School of Hygiene, University of Toronto, Toronto, Canada. *Professor of Public Health Nutrition.* (**2**, 1938; **5**, 1935)

McIntyre, A. R., Ph.D., M.D. College of Medicine, University of Nebraska, 42nd and Dewey Ave., Omaha. *Professor of Physiology and Pharmacology.* (**1**, 1933; **3**, 1938)

McKee, Albert P. State Univ. of Iowa, Iowa City, Iowa. *Assoc. Professor of Bacteriology.* (**6**, 1948)

McKee, Clara M., Squibb Institute for Medical Research, New Brunswick, N. J. *Associate in Microbiology.* (**6**, 1941)

McKee, Frank W., M.D. University of Rochester School of Medicine and Dentistry, Rochester, N. Y. *Instructor in Pathology and Rockefeller Foundation Fellow.* (**4**, 1947)

McKee, Ralph Wendell, M.S., Ph.D. Harvard Medical School, 25 Shattuck St., Boston, Mass. *Assistant Professor of Biochemistry.* (**2**, 1946)

McKennis, Herbert, Jr., Ph.D. Johns Hopkins School of Medicine, Baltimore, Md. *Instructor in Physiological Chemistry.* (**2**, 1948)

McKibbin, John M., Ph.D. Syracuse Univ. College of Medicine, Syracuse, N. Y. *Assoc. Professor of Biochemistry.* (**2**, 1948)

McLain, Paul L., M.D. University of Pittsburgh Medical School, Pittsburgh, Pa. *Assistant Professor of Physiology and Pharmacology; Major, M.C.* (**1**, 1948; **3**, 1940)

McLean, Franklin C., Ph.D., M.D. University of Chicago, Chicago, Ill. *Professor of Pathological Physiology.* (**1**, 1914; **2**, 1916; **3**, 1916)

McLean, I. William, Jr., B.S., M.D. Virus Research Division, Parke-Davis Laboratory, Detroit, Mich. *Research Virologist.* (**6**, 1946)

McLester, James S., M.D., LL.D. University of Alabama, 930 S. 20th St., Birmingham. *Professor of Medicine.* (**5**, 1933)

McManus, J. F. A., M.D. Medical College of Alabama, Birmingham, Ala. *Asst. Professor of Pathology.* (**4**, 1948)

McMaster, Philip D., M.D. The Rockefeller Institute for Medical Research, 66th St. and York Ave., New York City. (**4**, 1924)

McMeekin, Thomas L., Ph.D. Eastern Regional Research Laboratory, U. S. Department of Agriculture, Philadelphia, Pa. *Head of Protein Div.* (**2,** 1935)

McNamara, Bernard P., M.S., Ph.D. Pharmacology Section, Medical Division, Army Chemical Center, Md. *Pharmacologist.* (**3,** 1947)

McNaught, James Bernard, M.D. University of Colorado School of Medicine, Denver 7. *Professor and Head of Dept. of Pathology.* (**4,** 1936)

McPhail, Murchie K., Ph.D. National Defense Board, Suffield Experimental Station, Suffield, Alberta, Canada. (**3,** 1941)

McQuarrie, Irvine, Ph.D., M.D. University of Minnesota, Minneapolis. *Professor and Head of Department of Pediatrics.* (**4,** 1927; **5,** 1933)

McShan, W. H., M.A., Ph.D. Biology Building, University of Wisconsin, Madison 6, Wis. *Associate Professor of Zoology.* (**2,** 1947)

Medes, Grace, Ph.D. Lankenau Hospital Research Institute, Philadelphia, Pa. *Research Physiological Chemist.* (**2,** 1930)

Medlar, Edgar M., M.D. Path. Bldg., Room 708 Bellevue Hospital, 1st Ave. at 26th St., New York, N. Y. *Pathologist.* (**4,** 1927)

Meek, Walter J., Ph.D. University of Wisconsin, Madison. *Professor of Physiology; Associate Dean of the Medical School; Member of National Academy of Sciences.* (**1,** 1908)

Mehl, John W., Ph.D. Dept. of Biochemistry, University of Southern California, Los Angeles, Calif. *Professor of Biochemistry.* (**2,** 1946)

Meiklejohn, Gordon, M.D., C.M. Univ. of California Med. Sch., Berkeley, Calif. *Instructor in Medicine.* (**6,** 1948)

Mellon, Ralph R., M.D., M.Sc., Dr. P.H., Sc.D. (hon.). Institute of Pathology, Western Pennsylvania Hospital, Pittsburgh. *Director.* (**6,** 1918)

Melnick, Daniel, Ph.D. Quartermaster Food and Container Institute for the Armed Forces, Chicago 9, Ill. *Chief of the Food Development Division.* (**2,** 1940; **5,** 1942)

Melnick, Joseph L., Ph.D. Yale University School of Medicine, New Haven, Conn. *Res. Assoc. of Preventive Medicine.* (**2,** 1946; **6,** 1948)

Melville, Donald B., M.S., Ph.D. Cornell University Medical College, New York City. *Assoc. Professor of Biochemistry.* (**2,** 1947)

Melville, Kenneth Ivan, M.Sc., M.D., C.M. McGill University, Montreal, Canada. *Assistant Professor of Pharmacology.* (**3,** 1931)

Mendel, Bruno, M.D. University of Toronto, 100 College Street, Toronto 5, Canada. *Professor of Cellular Physiology,* Banting-Best Department of Medical Research. (**2,** 1947)

Mendenhall, Walter L., S.M., M.D. 9 Acacia St., Cambridge, Mass. *Professor of Pharmacology, retired, Boston University Medical School.* (**1,** 1915; **3,** 1917)

Mendez, Rafael, M.D. National Institute of Cardiology, Calzada de la Piedad 300, México D. F., México. *Head of the Dept. of Pharmacology.* (**3,** 1944)

Meneely, George R., M.D. Thayer Veterans Administration Hospital, Nashville, Tenn. *Assistant Professor of Medicine.* (**4,** 1946)

Menkin, Valy, M.A., M.D. Temple Univ. School of Medicine, Philadelphia, Pa. *Associate Professor of Experimental Pathology.* (**1,** 1932; **4,** 1932; **6,** 1931)

Menten, Maud L., M.D., Ph.D. University of Pittsburgh, Pittsburgh, Pa. *Associate Professor of Pathology.* (**1,** 1915; **4,** 1927)

Mettier, Stacy R., M.D. University of California Hospital, San Francisco. *Associate Professor of Medicine.* (**4,** 1932)

Mettler, Fred A., A.M., Ph.D., M.D. Department of Neurology, College of Physicians and Surgeons, Columbia University, New York City. *Associate Professor of Anatomy.* (**1,** 1937)

Meyer, Arthur E., Ph.D. Fellows Pharmaceutical Lab., New York City. (**1,** 1948)

Meyer, Curtis E., M.S., Ph.D. The Upjohn Co., Kalamazoo, Mich. *Senior Research Chemist.* (**2,** 1942)

Meyer, Karl, M.D., Ph.D. 630 W. 168th St., New York City. *Associate Professor of Biochemistry, Dept. of Medicine, College of Physicians and Surgeons, Columbia University.* (**2,** 1934)

Meyer, Karl F., M.D., Ph.D. George W. Hooper Foundation, Univ. of California Medical Center, San Francisco. *Director, George W. Hooper Foundation.* (**4,** 1930; **6,** 1922)

Meyerhof, Otto, M.D., LL.D. Department of Physiological Chemistry, University of Pennsylvania School of Medicine, Philadelphia. *Research Professor of Biochemistry.* (**2,** 1941)

Michaelis, Leonor, M.D., LL.D. Rockefeller Institute for Medical Research, 66th St. and York Ave., New York City. *Member Emeritus.* (**2,** 1929)

Mickelsen, Olaf, Ph.D. University of Minnesota, Department of Physiological Hygiene, Stadium South Tower, Minneapolis. *Associate Professor.* (**2,** 1944)

Mider, George Burroughs, M.D. Strong Memorial Hospital, Rochester 7, N. Y. *Professor of Cancer Research.* (**4,** 1940)

Miles, Walter R., A.M., Ph.D. 333 Cedar St., New Haven, Conn. *Professor of Psychology,*

The School of Medicine and the Institute of Human Relations, Yale University; Member of the National Academy of Sciences. **(1, 1919)**

Milhorat, Ade T., M.D. Cornell University Medical College, New York 21, N.Y. *Asst. Professor of Medicine and Instructor in Pharmacology; Research Fellow, Russell Sage Institute of Pathology.* **(1, 1934; 3, 1937; 5, 1935)**

Miller, Augustus Taylor, Jr., Ph.D. University of North Carolina Medical School, Chapel Hill. *Associate Professor of Physiology.* **(1, 1944)**

Miller, Benjamin F., Ch.E., M.D. Dept. of Medicine, Univ. of Chicago, Chicago, Ill. *Assistant Professor of Medicine.* **(2, 1938)**

Miller, Carey D., M.S. University of Hawaii, Honolulu. *Professor of Food and Nutrition, Hawaii Agricultural Experimental Station.* **(5, 1942)**

Miller, C. Phillip, M.D., M.S. University of Chicago, Chicago, Ill. *Professor of Medicine.* **(4, 1925; 6, 1928)**

Miller, Edgar G., Jr., Ph.D. 630 W. 168th St., New York City. *Professor of Biological Chemistry, Columbia University.* **(2, 1930)**

Miller, Franklin R., M.D. Jefferson Medical College and Hospital, Division of Hematology, Philadelphia, Pa. *Associate Professor of Medicine.* **(4, 1940)**

Miller, Frederick R., A.M., M.D., F.R.C.P. (C), F.R.S. Faculty of Medicine, University of Western Ontario, London, Ont., Canada. *Research Professor of Neurophysiology.* **(1, 1908)**

Miller, G. H., M.D. American College of Surgeons, 40 E. Erie St., Chicago 11, Ill. *Director of Educational Activities.* **(3, 1925)**

Miller, George A., Ph.D. Harvard Univ., Psycho-Acoustic Lab., Cambridge, Mass. *Res. Fellow.* **(1, 1948)**

Miller, H. R., M.D. 1020 Park Ave., New York 28, N. Y. Montefiore Hospital, New York City. **(1, 1947)**

Miller, Leon L., Ph.D., M.D. University of Rochester Sch. of Med. and Dentist., Rochester, N. Y. *Assoc. Prof. of Radiobiology and Biochemistry.* **(2, 1947)**

Miller, Lila, M.S., Ph.D. Dept. of Biological Chemistry, University of Michigan, Ann Arbor, Mich. *Assistant Professor of Biological Chemistry.* **(2, 1946)**

Miller, Lloyd C., Ph. D. Sterling-Winthrop Research Institute, 33 Riverside Ave., Rensselaer, N. Y. *Director, Biology Division.* **(3, 1938)**

Miller, R. C., Ph.D. Pennsylvania State College, State College. *Assistant Professor Agricultural and Biological Chemistry.* **(5, 1935)**

Miller, Zelma Baker, Ph.D. George Washington Sch. of Med., Washington, D. C. *Res. Assoc., Dept. of Pharmacology.* **(2, 1940)**

Mills, Clarence A., Ph.D., M.D. Cincinnati General Hospital, Cincinnati 29, Ohio. *Professor of Experimental Medicine, University of Cincinnati.* **(1, 1921; 2, 1921)**

Minot, Annie Stone, Ph.D. Vanderbilt University Medical School, Nashville, Tenn. *Research Associate, Department of Biochemistry.* **(1, 1923)**

Mirsky, Alfred E., Ph.D. Rockefeller Inst., 66th St. and York Ave., New York 21, N. Y. *Associate Member.* **(2, 1941)**

Mirsky, I. Arthur, M.Sc., M.D., C.M. The Jewish Hospital, Cincinnati, O. *Director, The May Institute for Medical Research; Assistant Professor of Biochemistry, University of Cincinnati.* **(1, 1936)**

Mitchell, Harold H., M.D. 120 Lasky Drive, Beverly Hills, Calif. **(6, 1943)**

Mitchell, Harold H., M.S., Ph.D. 555 Davenport Hall, University of Illinois, Urbana, Ill. *Professor of Animal Nutrition.* **(2, 1919; 5, 1933)**

Mitchell, Helen S., Ph.D. University of Massachusetts, Amherst, Mass. *Dean of the School of Home Economics.* **(2, 1925; 5, 1933)**

Mitchell, Philip H., Ph.D. Brown University Providence 12, R. I. *Robert P. Brown Professor of Biology.* **(2, 1909)**

Modell, Walter, M.D. Cornell University Medical College, 1300 York Ave., New York, N. Y. *Instructor in Pharmacology.* **(3, 1944)**

Moe, Gordon Kenneth, Ph.D., M.D. University of Michigan, Ann Arbor. *Associate Professor of Pharmacology.* **(3, 1944)**

Mohn, James F., M.D. 24 High St., Buffalo, N. Y. *Asst. Professor in Bacteriology and Immunology, Univ. of Buffalo School of Medicine.* **(6, 1946)**

Molitor, Hans, M.D. Merck Institute for Therapeutic Research, Rahway, N. J. *Director.* **(1, 1933; 3, 1942)**

Molland, Jacob, M.D., Ph.D. Univ. of Oslo, Oslo, Norway. *Professor of Pharmacology.* **(3, 1948)**

Molomut, Norman, M.A., Ph.D. Biological Labs., 16 Clinton St., Brooklyn 2, N. Y. *Director of Research and Director of Laboratories.* **(6, 1942)**

Moon, Virgil H., M.Sc., M.D. Jefferson Medical College, Philadelphia, Pa. *Professor of Pathology.* **(4, 1934)**

Moore, A. R., Ph.D. University of Oregon, Eugene. *Research Professor of General Physiology in the Department of Psychology.* **(1, 1912)**

Moore, Carl Vernon, M.D. Washington University School of Medicine, St. Louis, Mo. *Professor of Medicine.* **(4, 1938; 5, 1941)**

Moore, Dan H., Ph.D. Columbia Univ. Coll. of Phys. and Surg., New York City. *Assoc. Professor of Anatomy.* **(1, 1948)**

Moore, Lane A., Ph.D. Division of Nutrition and Physiology, Bureau of Dairy Industry, U. S.

Dept. of Agriculture, Beltsville, Md. *Head, Section of Dairy Cattle Nutrition.* (5, 1940)

Moore, Robert A., M.D. Washington University Medical School, St. Louis, Mo. *Dean and Professor of Pathology.* (4, 1929)

Moore, Robert M., M.D. University of Texas Medical School, Galveston, Tex. (1, 1932)

Moorhouse, Victor Henry K., M.B. University of Manitoba, Winnipeg, Canada. *Professor of Physiology.* (1, 1912)

Morehouse, Laurence E., M.Ed., Ph.D. University of Southern California, Los Angeles 7. *Associate Professor.* (1, 1947)

Morgan, Agnes Fay, M.S., Ph.D. University of California, Berkeley. *Professor of Home Economics; Biochemist, Agric. Exp. Station.* (2, 1929; 5, 1933)

Morgan, Charles F., Ph.D. Georgetown University School of Medicine, Washington, D. C. *Professor of Physiology and Chairman of the Department of Physiology.* (1, 1948; 3, 1947)

Morgan, Clifford T., M.A., Ph.D. Psychology Department, Johns Hopkins University, Baltimore 18, Md. (1, 1943)

Morgan, Isabel M., Ph.D. Poliomyelitis Research Center, Baltimore 1, Md. *Asst. Professor of Epidemiology, Johns Hopkins Univ.* (6, 1947)

Morgulis, Sergius, A.M., Ph.D. University of Nebraska College of Medicine, Omaha. *Professor of Biochemistry.* (1, 1914; 2, 1916)

Morison, Robert S., M.D. Rockefeller Foundation, 66th St. and York Ave., New York City. *Assist. Director of the Med. Sciences.* (1, 1938)

Moritz, Alan R., M.D. Harvard Medical School, Boston, Mass. *Professor of Legal Medicine.* (4, 1934)

Morrell, Clarence Allison, M.A., Ph.D. Department of Pensions and National Health, Laboratory of Hygiene, Sussex and John Sts., Ottawa, Canada. *Senior Pharmacologist.* (3, 1937)

Morris, Harold P., M.S., Ph.D. National Cancer Institute, Bethesda, Md. *Principal Biochemist in Nutrition.* (2, 1944; 5, 1943)

Morris, Marion C., Ph.D. Public Health Research Institute of City of New York, Foot of East 15th St., New York City. *Associate in Division of Infectious Diseases.* (6, 1936)

Morrison, Dempsie B., M.S., Ph.D. University of Tennessee College of Medicine, Memphis. *Associate Professor of Chemistry.* (2, 1936)

Morrison, James L., Ph.D. Emory University School of Medicine, Emory University, Ga. *Assistant Professor of Pharmacology.* (3, 1944)

Morse, Minerva, M.S., Ph.D. 5525 Kimbark Ave., Chicago, Ill. *Research Associate, Department of Pediatrics, University of Chicago.* (2, 1934)

Morse, Withrow, Ph.D. 32 Manchester Rd., Eastchester, via Tuckahoe, N. Y. *Consultant.* (2, 1914)

Mortimer, Bernard, Ph.D., M.D. 25 N. Ottawa St., Joliet, Illinois; Cook County Hospital, Chicago. (1, 1936)

Morton, John J., M.D. University of Rochester, School of Medicine and Dentistry, Rochester, N. Y. *Professor of Surgery.* (4, 1927)

Moses, Campbell, M.D. Univ. of Pittsburgh Sch. of Med., Pittsburgh, Pa. *Director, Addison H. Gibson Lab. of Applied Physiology.* (1, 1948)

Motley, H. L., Ph.D., M.D. Jefferson Hospital, Philadelphia, Pa. *Director, Cardio-Respiratory Lab.* Jefferson Med. Coll. *Assoc. Professor of Medicine.* (1, 1947)

Moulton, C. Robert, Ph.D. 5602 Dorchester Ave., Chicago 37, Ill. (5, 1933)

Moxon, Alvin L., Ph.D. College Station, Brookings, S.D. *Head, Chemistry Department, South Dakota Agricultural Experiment Station.* (2, 1944)

Moyer, Arden W., Ph.D. 407 Mountain View Rd., Englewood, N. J. *Research Biochemist, Lederle Labs., Pearl River, N. Y.* (6, 1946)

Moyer, Carl A., Ph.D. 6417 Glenrose Ct., Dallas 1, Texas. Southwestern Medical College, Dallas. *Professor of Experimental Surgery.* (1, 1943)

Mudd, Stuart, M.A., M.D. University of Pennsylvania, Philadelphia. *Professor of Bacteriology.* (1, 1921; 4, 1927; 6, 1927)

Muehlberger, Clarence W., M.S., Ph.D. State Health Department Laboratories, Lansing, Mich. *State Toxicologist.* (3, 1928)

Mueller, J. Howard, M.S., Ph.D. Harvard Medical School, Boston, Mass. *Charles Wilder Professor of Bacteriology and Immunology.* (2, 1922; 4, 1927; 6, 1920)

Mukherji, B., M.B., D.Sc. All-India Institute of Hygiene and Public Health, Calcutta. *Director, Biochemical Standardization Laboratory.* (3, 1938)

Mulder, Arthur G., Ph.D. University of Tennessee College of Medicine, Memphis. *Associate Professor of Physiology.* (1, 1937)

Mulford, Dwight J., Ph.D. 306 Riverway, Boston, Mass. *Chief of Laboratory, Massachusetts Dept. of Public Health; Associate in Physical Chemistry, Harvard University.* (2, 1948)

Mulinos, M. G., M.D., Ph.D. New York Medical College, Flower and Fifth Avenue Hospitals, Fifth Ave. and 105th St., New York 29, N. Y. *Associate Professor of Pharmacology.* (3, 1931)

Mull, James W., Ph.D. 2020 State St., Quincy, Ill. *Associate, Quincy Specialties Co.* (2, 1937)

Müller, Otto H., R.N. Dr. Department of Physiology, Syracuse University College of Medicine, Syracuse 10, N. Y. (1, 1947)

Mulligan, Richard M., M.D. University of Colorado School of Medicine, 4200 East 9th Ave-

nue, Denver, Colo. *Associate Professor of Pathology.* (4, 1947)

Mullin, F. J., M.S., Ph.D. Physiology Department, University of Chicago, Chicago 37, Ill. *Assistant Professor of Physiology.* (1, 1937)

Munro, F. L., Ph.D. Jefferson Medical College, Philadelphia, Pa. *Research Chemist.* (2, 1948)

Munro, Muriel Platt, Ph.D. Jefferson Medical College, Philadelphia, Pa. *Research Chemist.* (2, 1948)

Munsell, Hazel E., M.A., Ph.D. Nutrition Biochemistry Labs., Dept. of Food Technology, Mass. Inst. of Technology, Cambridge. *Research Associate.* (5, 1933)

Muntwyler, Edward, Ph.D. Long Island College of Medicine, 350 Henry St., Brooklyn, N. Y. *Professor of Biochemistry.* (2, 1931)

Muntz, John A., Ph.D., 3356 Euclid Heights Blvd., Cleveland Heights, Ohio. *Asst. Professor Western Reserve University.* (2, 1948)

Murlin, John R., A.M., Ph.D., Sc.D. University of Rochester Medical School, 260 Crittenden Blvd., Rochester, N. Y. *Professor Emeritus of Physiology and Director Emeritus of Department of Vital Economics.* (1R, 1906; 2, 1908; 5, 1933)

Murphy, James B., M.D. Rockefeller Institute for Medical Research, 66th St. and York Ave., New York City. *Member.* (4, prior to 1920)

Murray, Everitt G. D., O.B.E., B.A. honors in Natural Science, M.A., L.M.S.S.A., F.R.S.C. McGill University, Montreal, Canada. *Professor of Bacteriology and Immunology and Head of the Department, McGill University; Bacteriologist-in-Chief to the Royal Victoria Hospital, to the Children's Memorial Hospital and to the Alexandra Hospital.* (6, 1933)

Mushett, Charles W., Ph.D. Merck Institute for Therapeutic Research, Rahway, N. J. *Head, Department of Pathology.* (4, 1948)

Muus, Jytte, Mag. Scient. (Univ. of Copenhagen). Mount Holyoke College, South Hadley, Mass. *Associate Professor.* (2, 1946)

Myers, Chester N., Ph.D., Sc.D. 34 Cedar Place, Yonkers 5, N. Y. *Chief, Division Chemotherapy, N. Y. Skin and Cancer Hospital; Associate in Dermatology and Syphilology, College of Physicians and Surgeons; Research Chemist, Vanderbilt Clinic; Director, Chemical and Clinical Research, H. A. Metz Laboratories, Inc.* (2, 1922)

Nachmansohn, David, M.D. Dept. of Neurology, College of Physicians and Surgeons, Columbia University, 630 W. 168th St., New York City. *Research Associate in Neurology.* (1, 1940)

Nadler, J. Ernest, M.D., Med. D.Sc. 80-16 Lefferts Blvd., Kew Gardens 15, N. Y. (3, 1940)

Nahum, Louis N., M.D. 1142 Chapel St., New Haven, Conn. *Assistant Professor of Physiology, Yale University.* (1, 1934)

Najjar, Victor A., M.D. Unit for Microbiology, Univ. of Cambridge, Cambridge, Eng. *Nat'l. Res. Council Fellow.* (2, 1946)

Nash, Thomas P., Jr., M.A., Ph.D. 875 Monroe Ave., Memphis, Tenn. *Professor of Chemistry, College of Medicine; Dean of School of Biological Sciences, University of Tennessee.* (2, 1923)

Nasset, Edmund S., M.S., Ph.D. University of Rochester, 260 Crittenden Blvd., Rochester, N. Y. *Professor of Physiology.* (1, 1932; 5, 1940)

Nathanson, Ira T., M.S., M.D. Massachusetts General Hospital, Boston. *Instructor in Surgery, Harvard Medical School; Assistant in Surgery, Mass. General Hospital.* (1, 1943)

Nathanson, Morris D., M.D. 658 S. Bonnie Brae St., Los Angeles, Calif. *Associate Clinical Professor of Medicine, University of Southern California School of Medicine.* (3, 1940)

Necheles, Heinrich, M.D., Ph.D. Michael Reese Hospital, Chicago, Ill. *Director, Dept. of Gastro-intestinal Physiology, Michael Reese Hospital; Professorial Lecturer in Physiology, University of Chicago.* (1, 1929)

Neill, James M., Ph.D. Medical College, Cornell University, 1300 York Ave., New York City. *Professor of Bacteriology and Immunology.* (6, 1930)

Neilson, Charles Hugh, A.M., Ph.D., M.D. Humboldt Building, St. Louis, Mo. *Associate Dean and Professor of Medicine, St. Louis University Medical School.* (2, 1906)

Nelson, Arthur A., M.D., Ph.D. Food and Drug Administration, Federal Security Agency, Washington, D. C. *Senior Pathologist, Division of Pharmacology.* (4, 1942)

Nelson, Carl Ferdinand, M.D., Ph.D. Department of Biochemistry, University of Kansas, Lawrence. *Professor of Physiological Chemistry.* (2, 1914)

Nelson, Carl T., A.B., M.A., M.D. College of Physicians and Surgeons, 630 West 168th St., New York 32, N. Y. *Instructor in Dermatology.* (6, 1943)

Nelson, Erwin E., Ph.D., M.D. Drug Division, Food & Drug Administration, F.S.A., Washington, D. C. *Chief, New Drug Section; Adjunct Clinical Professor of Pharmacology, George Washington Univ. Sch. of Medicine.* (1, 1923; 3, 1924)

Nelson, E. M., M.S., Ph.D. Food and Drug Administration, Federal Security Agency, Washington 25, D. C. *Chief, Vitamin Division.* (2, 1927; 5, 1933)

Nelson, John B., Ph.D. Rockefeller Institute for Medical Research, Princeton, N. J. *Associate Member.* (4, 1934)

Nelson, John M., Ph.D. Columbia University, New York City. *Professor of Organic Chemistry.* (2, 1923)

Nelson, Norton, Ph.D. New York University College of Medicine, 477 First Ave., New York

16, N. Y. *Associate Professor of Industrial Medicine.* (2, 1946)

Nelson, P. Mabel, M.S., Ph.D. Iowa State College, Ames. *Dean, Division of Home Economics.* (5, 1934)

Nelson, Tell, M.A., M.D. 1415 Kalakaua Ave., Honolulu 19, T. H. *Practicing Physician.* (6, 1938)

Nelson, Victor E., M.S. Iowa State College, Ames. *Professor of Physiological Chemistry.* (2, 1924)

Nelson, Warren O., M.S., Ph.D. Dept. of Anatomy, School of Medicine, Univ. of Iowa, Iowa City. *Professor of Anatomy.* (1, 1937)

Neter, Erwin, M.D. Children's Hospital, 219 Bryant St., Buffalo, N. Y. *Attending Bacteriologist.* (6, 1937)

Nettleship, Anderson, M.D. University of Arkansas School of Medicine, Little Rock. *Professor and Head of Department of Pathology.* (4, 1942)

Neuberg, Carl, Ph.D., M.D. (h.c.), Med. Chem. D. (h.c.), Biol. D. (h.c.), Dr. Eng. (h.c.), LL.D. 536 W. 113th St., New York 25, N. Y. *Research Professor, New York University; Member or hon. member of the Academies of Science of Copenhagen, Göttingen, Leningrad, Lisbon, Lund, Prag, Rome and Upsala.* (2, 1944)

Neumann, Charles, M.D. 525 East 68th Street, New York 21, N. Y. *Resident Surgeon, New York Hospital; Instructor in Surgery, Cornell University Medical College.* (1, 1944)

Neurath, Hans, Ph.D. School of Medicine, Duke University, Durham, N. C. *Professor of Physical Biochemistry.* (2, 1940; 6, 1944)

Neuwelt, Frank, M.D. 504 Broadway, Gary, Ind. *Research Associate, Department of Gastrointestinal Research, Michael Reese Hospital.* (1, 1940)

Neuwirth, Isaac, Ph.D. 209 E. 23rd St., New York City. *Professor of Pharmacology, New York University College of Dentistry.* (2, 1924; 3, 1931)

Newman, Elliot V., M.D. Johns Hopkins Hosp., Baltimore, Md. *Asst. Professor of Med.* (1, 1948)

Nice, Leonard B., Ph.D. Chicago Medical School, 710 S. Wolcott Ave., Chicago, Ill. *Professor of Physiology and Pharmacology.* (1, 1921)

Nicholas, John S., M.S., Ph.D. Osborn Zoological Laboratory, Yale University, New Haven, Conn. *Bronson Professor of Comparative Anatomy.* (1, 1927)

Nicholson, Hayden C., M.S., M.D. Division of Medical Sciences, National Research Council, 2101 Constitution Ave., Washington 25, D. C. (1, 1932)

Nickerson, John L., Ph.D. Columbia University, 630 W. 168th St., New York 32, N. Y. *Associate Professor of Physiology.* (1, 1945)

Nickerson, Mark, Sc.M., Ph.D. University of Utah School of Medicine, Salt Lake City, Utah. *Assistant Professor of Pharmacology.* (3, 1947)

Nicolet, Ben H., Ph.D. Bureau of Dairy Industry, U. S. Department of Agriculture, Beltsville, Md. *Senior Chemist.* (2, 1932)

Nicoll, Paul A., Ph.D. Indiana University, Bloomington. *Assistant Professor of Physiology.* (1, 1945)

Niemann, Carl G., Ph.D. California Institute of Technology, Pasadena 4, Calif. *Professor, Organic Chemistry.* (2, 1940)

Nigg, Clara, M.A., Ph.D. c/o E. R. Squibb & Sons, New Brunswick, N. J. *Head, Dept. of Bacteriology and Virology, Dept. of Microbiological Development.* (6, 1929)

Nims, Leslie F., M.A., Ph.D. Biology Department, Brookhaven National Laboratory, Upton, Long Island, N.Y. *Acting Head of Department.* (1, 1940)

Noble, Robert Laing, M.D., Ph.D. D.Sc. Department of Medical Research, University of Western Ontario, London, Ontario. (1, 1941)

Nord, F. F., Ph.D. Fordham University, Dept. of Organic Chemistry, New York City. *Professor of Chemistry.* (2, 1940)

Norris, Earl R., Ph.D. University of Washington, Seattle. *Professor of Biochemistry and Executive Officer.* (2, 1938)

Norris, L. C., Ph.D. Rice Hall, Cornell University, Ithaca, N. Y. *Professor of Nutrition.* (2, 1939; 5, 1934)

Northrop, J. H., M.A., Ph.D., Sc.D., LL.D. Rockefeller Institute for Medical Research, Princeton, N. J. *Member.* (2, 1938)

Northup, David W., M.A., Ph.D. West Virginia University Medical School, Morgantown. *Associate Professor of Physiology.* (1, 1936)

Novy, F. G., M.D., Sc.D., LL.D. 721 Forest Ave., Ann Arbor, Mich. *Dean Emeritus of the Medical School and Professor Emeritus of Bacteriology, University of Michigan; Member, National Academy of Sciences.* (2, 1906)

Nowinski, W. W., Ph.D. Univ. of Texas, Sch. of Med., Galveston, Texas. *Res. Assoc.* (1, 1948)

Oberst, Fred W., M.S., Ph.D. U. S. School of Aviation Medicine, Randolph Air Force Base, Randolph Field, Texas. *Pharmacologist–Biochemist.* (2, 1936)

Ochoa, Severo, M.D. New York University College of Medicine, 477 First Ave., New York City 16. *Professor of Pharmacology.* (2, 1942)

Ogden, Eric, M.R.C.S. (England), L.R.C.P. (London). University of Texas School of Medicine, Galveston. *Professor of Physiology and Clinical Physiologist, John Sealy Hospital.* (1, 1941)

O'Hare, James P., M.D. 520 Commonwealth Ave., Boston, Mass. *Physician, Peter Bent*

Brigham Hospital; Lecturer on Medicine, Harvard Medical School. (**4,** 1927)

Ohlson, Margaret A., M.S., Ph.D. Dept. of Foods and Nutrition, Michigan State College, East Lansing. *Professor and Head, Department of Foods and Nutrition.* (**5,** 1945)

Okey, Ruth, Ph.D. 1583 Life Sciences Bldg., University of California, Berkeley. *Professor of Home Economics and Biochemist, State Exp. Station.* (**2,** 1922; **5,** 1933)

Olcott, Harold S., M.S., Ph.D. Western Regional Research Laboratory, U. S. Department of Agriculture, Albany 6, Calif. *Principal Chemist.* (**2,** 1935)

Oldham, Helen, M.S., Ph.D. University of Chicago, Chicago, Ill. *Assistant Professor, Dept. of Home Economics.* (**5,** 1946)

Olitsky, Peter K., M.D. Rockefeller Institute for Medical Research, 66th St. and York Ave., New York City. *Member.* (**4R,** 1923; **6,** 1917)

Oliver, Jean Redman, M.D. Hoagland Laboratory, 335 Henry St., Brooklyn, N. Y. *Professor of Pathology, Long Island College of Medicine.* (**1,** 1924; **4,** 1924)

Oliver, Wade W., M.D. Rockefeller Foundation, New York City. *Associate Director, Division of Medical Sciences.* (**4,** 1925)

Olmsted, J. M. D., M.A., Ph.D. University of California, Berkeley. *Professor of Physiology.* (**1,** 1920)

Olsen, Norman S., Ph.D. Washington Univ. Med. Sch., St. Louis, Mo. *Asst. Professor of Biochemistry.* (**1,** 1948)

Olson, Byron J., Ph.D., M.D. National Institutes of Health, Bethesda, Md. *Surgeon, Div. of Infectious Diseases, USPHS.* (**6,** 1948)

Olson, Carl, Jr., D.V.M., Ph.D. Univ. of Nebraska, Lincoln, Nebr. *Chairman, Dept. of Animal Pathology and Hygiene.* (**4,** 1937)

Opdyke, David F., Ph.D. Western Reserve Medical School, Cleveland 6, O. *Assistant Professor of Physiology.* (**1,** 1945)

Opie, Eugene L., M.D., Sc.D., LL.D. Rockefeller Institute for Medical Research, 66th St. and York Ave., New York 21, N. Y. *Member, National Academy of Sciences.* (**1,** 1906; **4,** 1913; **6,** 1923)

Oppenheimer, Enid Tribe. 124 E. 61st St., New York City. *Instructor in Physiology, Columbia University.* (**1,** 1932)

Oppenheimer, Ernst, M.D. Ciba Pharmaceutical Products, Inc., Lafayette Park, Summit, N. J. *Vice-President in charge of Medical Research.* (**3,** 1944)

Oppenheimer Morton Joseph, Ed.M., M.D. 3400 N. Broad St., Philadelphia, Pa. *Professor of Physiology, Temple University School of Medicine.* (**1** 1942)

Orent-Keiles, Elsa, D.Sc. Bureau of Human Nutrition and Home Economics, U. S. Department of Agriculture, Beltsville, Md. *In Charge of Nutrition Investigations; Assistant Chief, Foods and Nutrition Division.* (**2,** 1935; **5,** 1935)

Ort, John M., Ph.D. 401 Codwise Ave., New Brunswick, N. J. *Director of Research, Carroll Dunham Smith Pharmacal Co.* (**2,** 1932)

Orten, Aline Underhill, M.S., Ph.D. Wayne Univ. College of Medicine, Detroit 26, Mich. *Research Associate, Dept. of Physiological Chemistry.* (**5,** 1946)

Orten, James M., M.S., Ph.D. Wayne University College of Medicine, Detroit, Mich. *Associate Professor of Physiological Chemistry.* (**2,** 1936; **5,** 1937)

Orth, O. Sidney, M.S., Ph.D., M.D. University of Wisconsin, Service Memorial Institute, Madison, Wis. *Professor of Pharmacology.* (**1,** 1942; **3,** 1944)

Osborne, Stafford L., B.P.E., M.S., Ph.D. Northwestern University Medical School, 303 E. Chicago Ave., Chicago, Ill. *Professor of Physical Medicine.* (**1,** 1941)

Oser, Bernard L., M.S., Ph.D. Food Research Laboratories, Inc., 48-14 Thirty-third St., Long Island City 1, N. Y. *Director.* (**5,** 1945)

Oster, Robert H., Ph.D. University of Maryland Medical School, Greene and Lombard Sts., Baltimore. *Assistant Professor of Physiology.* (**1** 1938)

Osterberg, Arnold E., M.S., Ph.D. Medical Dept., Abbott Laboratories, No. Chicago, Ill. *Associate in Medical Dept.* (**2,** 1933)

Osterhout, Marian I. Rockefeller Institute for Medical Research, 66th St. and York Ave., New York City 21. *Associate, Division of General Physiology.* (**1,** 1927)

Osterhout, W. J. V., Ph.D. Rockefeller Institute, 66th St. and York Ave., New York City. *Member Emeritus of the Institute; Member of the National Academy of Sciences.* (**1,** 1910)

Otis, Arthur B., A.B., Sc.M., Ph.D. Dept. of Physiology, Univ. of Rochester, Rochester 7, N. Y. *Associate in Physiology.* (**1,** 1946)

Overman, Richard R., B.A., M.A., Ph.D. Dept. of Physiology, Univ. of Tennessee, Memphis, Tenn. *Assistant Professor.* (**1,** 1946)

Owen, Seward E., M.S., Ph.D. 418 So. 20th Ave., Maywood, Ill. *Major, S. E. Sn. Corps.* (**1,** 1938)

Pace, Donald M., Ph.D. Dept. of Physiology and Pharmacology, College of Pharmacy, University of Nebraska, Lincoln. *Associate Professor of Physiology.* (**1,** 1944)

Pace, Nello, Ph.D. Division of Medical Physics, Donner Laboratory, University of California, Berkeley 4. *Research Associate.* (**1,** 1947)

Pack, George T., M.D. 139 E. 36th St., New York City 16. *Fellow in Cancer Research, Memorial Hospital.* (**1,** 1924)

Packchanian, Ardzroony, Ph.D. School of Medicine, University of Texas, Galveston. *Associate Pro-*

fessor of Bacteriology and Tropical Medicine, and Director of Laboratory of Microbiology. **(6, 1943)**

Page, Edouard, Ph.D. Department of Biochemistry, Medical School, Laval University, Quebec, P.Q., Canada. **(1, 1947)**

Page, Ernest W., M.D. Department of Obstetrics and Gynecology, University of California Hospital, San Francisco 22. *Assistant Professor.* **(1, 1947)**

Page, Irvine H., M.D. Cleveland Clinic Foundation, Euclid Ave. and 93rd St., Cleveland 6, O. *Director of Research.* **(1, 1937; 2, 1932)**

Painter, Elizabeth E., Ph.D. University of Illinois School of Medicine, 1853 W. Polk St., Chicago. *Assistant Professor of Physiology.* **(1, 1941)**

P'An, S. Y., M.D. College of Physicians and Surgeons, New York City. **(3, 1941)**

Pangborn, Mary C., Ph.D. New Scotland Ave., Albany, N. Y. *Senior Biochemist, New York State Department of Health, Division of Laboratories and Research.* **(2, 1941)**

Pappenheimer, A. M., Jr., Ph.D. New York Univ. College of Medicine, 477 First Ave., New York 16, N. Y. *Associate Professor of Bacteriology.* **(2, 1941; 6, 1938)**

Pappenheimer, Alwin M., M.D. 45 Holden St., Cambridge, Mass. *Professor Emeritus of Pathology, Columbia University.* **(4, 1922)**

Pappenheimer, John R., B.S., Ph.D. Harvard Medical School, Boston, Mass. *Associate in Physiology.* **(1, 1946)**

Park, Edwards A., M.D. Johns Hopkins Hospital, Baltimore, Md. *Emeritus Professor of Pediatrics, Johns Hopkins University.* **(4, 1923)**

Parker, Robert F., M.D. Lakeside Hospital, 2109 Adelbert Rd., Cleveland, O. *Associate Professor of Microbiology.* **(4, 1942; 6, 1935)**

Parkins, William M., M.A., Ph.D. Route 2, Chariton, Iowa. **(1, 1939)**

Parpart, Arthur K., Ph.D. Guyot Hall, Princeton University, Princeton, N. J. *Professor of Physiology.* **(1, 1937)**

Parr, Leland W., Ph.D. The George Washington University School of Medicine, 1335 H St., N.W. Washington, D. C. *Professor of Bacteriology.* **(4, 1940)**

Parrach, Horace O., Ph.D. Wright-Patterson Air Force Base, Aero Medical Lab., Dayton, Ohio. *Res. Physiologist.* **(1, 1948)**

Parsons, Helen T., M.D., Ph.D. University of Wisconsin, Madison. *Professor of Home Economics; In Charge of Purnell Research in Nutrition.* **(2, 1929; 5, 1933)**

Parsons, Robert J., M.D. Highland Alameda County Hospital, 2701 14th Ave., Oakland, Calif. *Pathologist and Director of Laboratories.* **(4, 1939)**

Paschkis, Karl E., M.D. 1025 Walnut St., Philadelphia, Pa. *Assistant Professor of Medicine, Associate in Physiology, Jefferson Medical College; Chief of Endocrine Clinic, Jefferson Hospital.* **(1, 1942)**

Patt, Harvey M., Ph.D. Argonne National Lab., Chicago, Ill. *Physiologist.* **(1, 1948)**

Patterson, Thos. L., A.M., M.S., Ph.D., Sc.D. (hon.) Wayne University College of Medicine, 1512 St. Antoine St., Detroit, Mich. *Research Professor of Physiology.* **(1, 1920)**

Patterson, Wilbur I., Ph.D. Federal Security Agency, Food and Drug Administration, Washington, D. C. *Chief, Organic Analytical Methods.* **(2, 1948)**

Patton, H. D., Ph.D., M.D. Department of Physiology and Biophysics, University of Washington School of Medicine, Seattle 5. *Assistant Professor.* **(1, 1947)**

Paul, John R., M.D., A.M. 330 Cedar St., New Haven, Conn. *Professor of Preventive Medicine, Yale University Medical School.* **(4, 1927; 6, 1937)**

Pearce, John Musser, M.D. New York Hospital, 525 East 68th St., New York 21, N. Y. **(4, 1942)**

Pearce, Louise, M.D. Rockefeller Institute for Medical Research, Princeton, N. J. *Associate Member in Pathology and Bacteriology.* **(3, 1915; 4, 1925)**

Pearcy, Frank, Ph.D., M.D. 2606 Oak Lawn Ave., Dallas, Texas. **(1, 1928)**

Pearlman, William H., Ph.D. Jefferson Medical College, 1025 Walnut St., Philadelphia 7, Pa. *Assistant Professor, Biochemistry Department.* **(2, 1946)**

Pearse, Herman E., M.D. School of Medicine and Dentistry, University of Rochester, Crittenden Blvd., Rochester, N. Y. *Associate Professor of Surgery.* **(4, 1932)**

Pearson, Harold E., M.D., M.P.H. Univ. of Southern California Med. Sch., Los Angeles, Calif. *Assoc. Professor of Bacteriology; Medical Microbiologist, Los Angeles County Hospital.* **(6, 1948)**

Pearson, P. B., Ph.D. A & M College of Texas, College Station. *Head of Department of Biochemistry and Nutrition.* **(2, 1944; 5, 1940)**

Pease, Marshall C., Jr., M.D. Branchville Rd., R.F.D. 4, Ridgefield, Conn. *Historian of American Academy of Pediatrics.* **(6, 1920)**

Peck, Robert L., Ph.D. 939 Madison Avenue, Plainfield, N. J. *Senior Chemist,* Merck and Co., Inc. **(2, 1947)**

Pemberton, Ralph, M.S., M.D. University of Pennsylvania, Philadelphia. *Professor of Medicine, Graduate School of Medicine.* **(5, 1933)**

Penfield, Wilder G., M.D., D.Sc. McGill University, Montreal, Que., Canada. *Professor of Neurology and Neurosurgery.* **(1, 1932)**

Pennington, Mary Engle, Ph.D. 233 Broadway, New York 7, N. Y. *Consultant in Connection with the Handling, Transportation and Storage of Perishables.* (2, 1908)

Penrod, Kenneth E., B.S., Ph.D. Boston Univ. School of Medicine, Dept. of Physiology, 80 E. Concord St., Boston, Mass. *Assistant Professor of Physiology.* (1, 1946)

Peoples, S. Anderson, M.D. Baylor University College of Medicine, Houston, Texas. *Professor of Pharmacology.* (3, 1937)

Perlman, Ely, A.B., M.D. Mt. Sinai Hospital, 100th St. and Fifth Ave., New York 29, N. Y. *Research Associate.* (6, 1944)

Perlzweig, William A., A.M., Ph.D. Box 3711, Duke Hospital, Durham, N. C. *Professor of Biochemistry, Duke University; Biochemist, Duke Hospital.* (2, 1924; 5, 1944)

Permar, Howard H., M.D. Pathologic Laboratories, Mercy Hospital, Pittsburgh, Pa. *Director of Laboratories.* (4, 1925)

Petermann, Mary L., Ph.D. Sloan-Kettering Institute, New York City. *Associate.* (2, 1947)

Peters, John P., M.D. 789 Howard Ave., New Haven, Conn. *John Slade Ely Prof. of Med. Yale Univ. School of Medicine.* (2, 1922)

Peters, Lawrence, B.S., Ph.D. Dept. of Pharmacology, Western Reserve Univ. Medical School 2109 Adelbert Rd., Cleveland 6, Ohio. *Senior Instructor in Pharmacology.* (3, 1946)

Petersen, William E., M.S., Ph.D. Division of Dairy Husbandry, University of Minnesota, St. Paul 1. *Professor.* (1, 1947)

Petersen, William F., M.D. 1322 Astor St., Chicago. *Professor of Pathology, Univ. of Illinois.* (3, 1923; 4, 1923)

Peterson, William H., A.M., Ph.D. Biochemistry Building, University of Wisconsin, Madison. *Professor of Biochemistry.* (2, 1919; 5, 1936)

Petroff, S. A., Ph.D., Sc.D. Route 5, Greenville, South Carolina. (6, 1926)

Pett, L. B., M.D., Ph.D. Department of National Health and Welfare, Ottawa, Canada. *Director of Nutrition.* (2, 1937; 5, 1945)

Peugnet, Hubert B., M.D. Department of Surgery, University of Chicago, Chicago, Ill. (1, 1938)

Pfeiffer, Carl C., Ph.D., M.D. Department of Pharmacology, University of Illinois, 1853 West Polk St., Chicago 12. *Professor of Pharmacology and Chairman of Dept.* (3, 1938)

Pfiffner, Joseph J., Ph.D. Research Laboratories, Parke, Davis & Co., Detroit 32, Mich. *Research Chemist.* (1, 1931; 2, 1931; 5, 1946)

Phatak, Nilkanth M., M.S., Ph.D. North Pacific College of Oregon, School of Dentistry, Portland. *Associate Professor of Physiology, Pharmacology, and Research; and Instructor, Dept. of Pharmacology, University of Oregon Medical School, Portland. Captain, Sn. C.* (3, 1941)

Philips, Frederick S., Ph.D. Sloan-Kettering Institute for Cancer Research, 444 East 68th Street, New York, N. Y. *Chief, Pharmacology Department.* (3, 1947)

Phillips, Paul H., Ph.D. University of Wisconsin, Madison. *Professor of Biochemistry.* (2, 1940; 5, 1938)

Phillips, Robert Allan, M.D. U. S. Naval Medical Research Unit No. 3, American Embassy at Cairo, Egypt, c/o Navy Pouch Section, Navy Department, Washington 25, D. C. (1, 1938)

Pick, Ernst Peter, M.D. 19 E. 98th St., New York City. *Associate Pharmacologist to the Mt. Sinai Hospital; Clinical Professor of Pharmacology in Columbia University.* (3, 1940)

Pierce, Harold B., M.S., Ph.D. College of Medicine, University of Vermont, Burlington. *Professor and Chairman, Dept. of Biochemistry.* (2, 1929; 5, 1933)

Pierce, Harold Fisher, Ph.D., M.D. State Veterans' Hospital, Rocky Hill, Conn. (1, 1928)

Pierce, Ira H., M.S., Ph.D. Univ. of Iowa, Iowa City. *Associate Professor of Pharmacology.* (3, 1933)

Pike, Frank H., Ph.D. 437 W. 59th St., New York City 19. *Associate Professor of Physiology, Columbia University.* (1, 1907)

Pillemer, Louis, Ph.D. Inst. of Pathology, Western Reserve Univ., Cleveland, O. *Assoc. Professor of Immunochemistry.* (6, 1942)

Pincus, Gregory, M.S., Sc.D. Worcester Foundation for Experimental Biology, 222 Maple Ave., Shrewsbury, Mass. (1, 1935)

Pincus, I. J., M.D. Temple Univ. Med. Sch., Philadelphia, Pa. *Res. Assoc., Fels Found. for Med. Res.* (1, 1948)

Pinkerton, Henry, M.D. St. Louis University School of Medicine, St. Louis, Mo. *Professor of Pathology.* (4, 1931)

Pinkston, James O., Ph.D. American University of Beirut, Beirut, Lebanon. *Pharmacologist.* (1, 1936; 3, 1939)

Pinson, Ernest A., Ph.D. 139 North Walnut St., Yellow Springs, Ohio. (1, 1943)

Pittman, Martha S., A.M., Ph.D. Manhattan, Kansas. (5, 1933)

Pitts, Robert F., Ph.D., M.D. Syracuse Univ. College of Medicine, Syracuse, N. Y. *Professor of Physiology and Head of the Department of Physiology.* (1, 1934)

Pollack, Herbert, Ph.D., M.D. 45 E. 66th St., New York City 21. *Associate Physician and Chief of Metabolism Clinics, Mt. Sinai Hospital.* (1, 1933; 5, 1935)

Pomerat, Charles Marc, Ph.D. University of Texas Medical School, Galveston. *Professor of Anatomy.* (1, 1944)

Pommerenke, W. T., A.M., Ph.D., M.D. University of Rochester School of Medicine and Dentistry, Rochester 7, N. Y. *Associate Professor of Obstetrics and Gynecology* **(1,** 1947)

Pond, Samuel E., A.M., Ph.D. 400 S. Main St., East Hartford, Conn. *Consulting Engineer, P. and W. A. Division, United Aircraft Corp.* **(1,** 1924)

Ponder, Eric, M.D., Sc.D. The Nassau Hospital, Mineola, Long Island, N. Y. **(1,** 1931)

Poppen, John R., M.D. U. S. Naval Base Station, Aero-Med. Equipment Lab., Philadelphia, Pa. *Superintendent.* **(1,** 1948)

Popper, Hans, Ph.D., M.D. Cook County Hospital, 1825 W. Harrison St., Chicago 12, Ill. *Director of Department of Pathology and Scientific Director of Hektoen Institute for Medical Research; Assistant Professor of Pathology, Northwestern University Medical School.* **(4,** 1942)

Porter, Eugene L., A.M., Ph.D. University of Texas, Medical Branch, Galveston. *Professor of Physiology.* **(1,** 1913)

Porter, Thelma, Ph.D. University of Chicago, Chicago, Ill. *Prof. and Head of Department of Home Economics.* **(5,** 1944)

Porter, William Townsend, M.D., Sc.D., LL.D. Dover, Mass. *Professor Emeritus of Comparative Physiology, Harvard University.* **(1,** 1891)

Poth, Edgar J., M.D., M.A., Ph.D. Univ. of Texas Med. School, Galveston, Texas. *Professor of Surgery.* **(1,** 1946)

Potter, Truman S., M.D. 82 N. Prospect St., Amherst, Mass. *Independent Research Worker.* **(6,** 1939).

Potter, Van R. Ph.D. McArdle Memorial Laboratory, University of Wisconsin Medical School, Madison. *Professor of Oncology.* **(2,** 1941)

Powell, Horace M., Sc.D. 5565 Washington Blvd., Indianapolis, Ind. *Head Bacteriologist, Eli Lilly & Co.* **(6,** 1934)

Power, Marschelle H., M.S., Ph.D. Mayo Clinic, Rochester, Minn. *Professor of Physiological Chemistry, Mayo Foundation, University of Minnesota.* **(2,** 1932)

Pratt, Joseph H., A.M., M.D. Sc.D. New England Medical Center, 25 Bennet St., Boston, Mass. *Physician-in-Chief, Boston Dispensary, and Joseph H. Pratt Diagnostic Clinic; Professor Emeritus of Clinical Medicine, Tufts Medical School.* **(1,** 1910; **3,** 1910; **4,** 1927)

Preisler, Paul W., M.S., Ph.D. 4580 Scott Ave., St. Louis 10, Mo. *Assistant Professor of Biochemistry, Washington University School of Medicine.* **(2,** 1931)

Price, Clifford W., Ph.D. U. S. Food and Drug Administration, Washington, D. C. *Bacteriologist, Antibiotics Analyst, Div. of Penicillin Control and Immunology.* **(6,** 1946)

Prinzmetal, Myron, M.A., M.D. Cedars of Lebanon Hospital, Los Angeles, Calif. *Senior Attending Physician.* **(3,** 1941)

Prosser, C. Ladd, Ph.D. Natural History Building, University of Illinois, Urbana. **(1,** 1935)

Puestow, Charles B., M.D., M.S., Ph.D. University of Illinois, College of Medicine, 1853 W. Polk St., Chicago. *Assistant Professor of Surgery.* **(1,** 1934)

Pugsley, L. I., Ph.D. Dept. Nat'l. Health and Welfare Food and Drug Lab., Ottawa, Canada. *Chief, Lab. Service.* **(2,** 1937)

Putnam, Frank W., M.A., Ph.D. University of Chicago, Chicago, Ill. *Asst. Prof. of Biochemistry.* **(2,** 1947)

Quackenbush, Forrest W., Ph.D. R-2, Brookston, Ind. *Professor and Head of Dept. of Agricultural Chemistry, Purdue Univ.* **(2,** 1946)

Quaife, Mary L., Ph.D. Distillation Products, Inc., Rochester, N. Y. *Research Chemist.* **(2,** 1948)

Quastel, J. H., D.Sc., Ph.D., F.R.S. McGill Univ., Montreal, Canada. *Professor of Biochemistry.* **(2,** 1948)

Queen, Frank B., M.D. Univ. of Oregon School of Medicine, 3181 S.W. Marquam Hill Rd., Portland, Oregon. *Professor of Pathology.* **(4,** 1941)

Quick, Armand J., M.D., Ph.D. 561 N. 15th St., Milwaukee 3, Wis. *Professor and Director, Dept. of Biochemistry, Marquette Medical School,* **(2,** 1932; **3,** 1937)

Quigley, J. P., M.S., Ph.D. Dept. of Pharmacology, Univ. of Tenn., Memphis 3, Tenn. *Professor and Chief of the Division of Pharmacology.* **(1,** 1929; **3,** 1945)

Quinn, Edmond John, Ph.D. 106 N. Lee Ave., Rockville Center, Long Island, N. Y. *Medicinal Sales Division, Merck & Co., Inc., Rahway, N. J.* **(2,** 1927; **5,** 1933)

Rabinowitch, I.M., O.B.E., D.Sc., M.D., C.M., F.R.C.P., (c), F.A.C.P. 1020 Medical Arts Building, Sherbrooke and Guy Streets, Montreal, Canada. *Associate Professor of Medicine and Lecturer in Medical Jurisprudence and Toxicology, McGill University; Director, Institute for Research, Montreal General Hospital* **(2,** 1928; **5,** (1933)

Rachele, Julian R., Ph.D. Cornell Univ. Medical College, New York City. *Asst. Professor of Biochemistry.* **(2,** 1948)

Rackemann, Francis M., M.D. 263 Beacon St., Boston, Mass. *Physician, Massachusetts General Hospital; Lecturer in Medicine, Harvard Medical School.* **(6,** 1923)

Racker, Efraim, M.D. New York Univ. College of Medicine, New York City. *Asst. Professor of Microbiology.* **(2,** 1948)

Raffel, Sidney, Sc.D., M.D. Department of Bacteriology and Experimental Pathology, Stan-

ford University, Calif. *Assistant Professor.* (6, 1938)

Rahn, Hermann, Ph.D. University of Rochester School of Medicine and Dentistry, Rochester, N. Y. *Assistant Professor of Physiology.* (1, 1944).

Rake, Geoffrey W., M.B., M.R.C.S., L.R.C.P. Division of Microbiology, The Squibb Institute for Medical Research, New Brunswick, N. J. *Head, Division of Microbiology.* (6, 1939)

Rakestraw, Norris W., Ph.D. Scripps Institution of Oceanography, University of California, LaJolla. *Professor of Chemistry.* (2, 1925)

Rakieten, Nathan, Ph.D. Bristol Laboratories, Inc., P.O. Box 657, Syracuse 2, N. Y. *Pharmacologist and Toxicologist.* (1, 1941)

Ralli, Elaine P., M.D. 477 First Ave., New York City. *Associate Professor of Medicine, New York University College of Medicine.* (1, 1934; 5, 1933)

Ralston, H. J., Ph.D. Department of Physiology, College of Physicians and Surgeons, 344 14th St., San Francisco 3, Calif. *Assistant Professor of Physiology.* (1, 1947)

Rammelkamp, Charles H., Jr., B.A., M.D. Dept. of Preventive Medicine, Western Reserve Univ., Cleveland 6, Ohio. *Assoc. Professor of Medicine.* (6, 1943)

Ramsey, Robert Weberg, M.S., Ph.D. Medical College of Virginia, Richmond. *Associate Professor of Physiology and Pharmacology.* (1, 1939)

Randall, Lowell O., Ph.D. Hoffmann-LaRoche, Inc., Nutley 10, N. J. *Pharmacologist.* (2, 1939)

Randall, Walter C., M.S., Ph.D. St. Louis University, School of Medicine, 1402 S. Grand Blvd., St. Louis, Mo. *Instructor in Physiology.* (1, 1943)

Randall, William A., B.S., M.S., Ph.D. Food and Drug Administration, Washington 25, D. C. *Bacteriologist, Division of Penicillin Control and Immunology.* (6, 1946)

Rane, Leo, Ph.D. Lederle Laboratories, Inc., Pearl River, N. Y. *Department Head, Normal Blood Plasma.* (6, 1942)

Rantz, Lowell A., A.B., M.D. Stanford Univ. Hospital, San Francisco 15, Calif. *Assistant Professor of Medicine.* (3, 1946)

Rapoport, Samuel, M.D., Ph.D. The Children's Hospital Research Foundation, Elland and Bethesda, Cincinnati, O. *Research Associate.* (2, 1941)

Rapport, David, M.D. 416 Huntington Ave., Boston, Mass. *Professor of Physiology, Tufts College Medical School.* (1, 1922)

Raska, Sigwin, Ph.D., M.A. University of Mississippi, School of Medicine, University, Miss. *Professor of Pharmacology.* (1, 1947)

Rasmussen, Andrew Theodore, Ph.D. University of Minnesota Medical School, Minneapolis. *Professor of Neurology.* (1, 1919)

Ratner, Bret, M.D. 50 E. 78th St., New York City. *Professor of Pediatrics, New York Univ. College of Medicine.* (4, 1940; 6, 1928)

Ratner, Sarah, Ph.D. Dept. of Pharmacology, N. Y. Univ. College of Medicine, 477 First Ave., New York 16, N. Y. *Assistant Professor of Pharmacology.* (2, 1944)

Raulston, B. O., A.B., M.D. 200 S. Hudson Ave., Los Angeles, Calif. *Professor of Medicine, Director of Clinical Teaching, and Associate Dean, the University of Southern California, School of Medicine.* (3, 1942)

Ravdin, I. S., M.D. University of Pennsylvania School of Medicine, Philadephia. *John Rhea Barton Professor of Surgery; Chief Surgeon, Hospital of the University of Pennsylvania.* (1, 1930; 4, 1930)

Rawson, Rulon W., M.D. Memorial Hospital, New York City. *Attending Physician; Chief, Dept. of Clinical Investigation, Sloan-Kettering Institute; Associate Professor of Medicine, Cornell Medical College.* (1, 1947)

Raymond, Albert L., Ph.D. G. D. Searle & Co., P. O. Box 5110, Chicago 80, Ill. *Vice President.* (2, 1932)

Reback, John F., B.S., M.S. 615 N. Wolfe. St., Baltimore, Md. *Student School of Hygiene, Johns Hopkins University.* (6, 1943)

Redfield, Alfred C., Ph.D. Woods Hole, Mass. *Professor of Physiology, Harvard University.* (1, 1919)

Reed, Carlos Isaac, A.M., Ph.D. College of Medicine, University of Illinois, 1853 W. Polk St., Chicago. *Professor of Physiology.* (1, 1923)

Reed, Emerson A., Ph.D. Hahnemann Med. Col., Philadelphia, Pa. *Asst. Professor of Physiology.* (1, 1948)

Reed, Howard S., Ph.D. 3048 Life Sciences Bldg., University of California, Berkeley. *Professor of Plant Physiology.* (2, 1909)

Rehm, Warren S., Jr., Ph.D., M.D. University of Louisville School of Medicine, Louisville, Ky. *Assistant Professor of Physiology.* (1, 1945)

Reid, Mary E., Ph.D. National Institute of Health, Bethesda 14, Md. *Cytologist.* (5, 1947)

Reid, Marion Adelaide, A.M., Ph.D. New Jersey College for Women, New Brunswick, N. J. (1, 1941)

Reimann, Hobart A., M.D. Jefferson Hospital, Philadelphia, Pa. *Professor of Medicine, Jefferson Medical College.* (4, 1933)

Reimann, Stanley P., M.D., Sc.D. 703 W. Phil-Ellena St., Mount Airy, Philadelphia, Pa. *Director of the Research Institute of the Lankenau Hospital; Director, Institute of Cancer Research Associate Professor of Surgical Pathology,*

Graduate School of Medicine, University of Pennsylvania; Professor of Oncology, Hahnemann Medical College and Hospital, Philadelphia. (**1**, 1921; **4**, 1924)

Reinecke, Roger M., M.A., M.B., Ph.D., M.D. Department of Physiology, University of Minnesota, Minneapolis 14. *Assistant Professor.* (**1**, 1947)

Reiner, John M., M.S., Ph.D. Tufts College Medical School, Dept. of Physiology, Boston, Mass. (**1**, 1947)

Reiner, Laszlo, M.D., Ph.D. 165 Franklin St., Bloomfield, N. J. *Director, Pharmaceutical Research, Wallace & Tiernan Products, Inc.* (**2**, 1942; **6**, 1933)

Reinhold, John G., M.S., Ph.D. University of Pennsylvania Hospital, Pepper Lab., Philadelphia, Pa. *Associate in charge of Biochemistry.* (**2**, 1936)

Remington, John W., M.S., PhD. University of Georgia, School of Medicine, Augusta. *Assistant Professor of Physiology.* (**1**, 1943)

Remington, Roe E., M.A., Ph.D., D.Sc. Hendersonville, N. C. *Consultant.* (**2**, 1930; **5**, 1934)

Renfrew, Alice G., Ph.D. Mellon Institute of Industrial Research, University of Pittsburgh, Pittsburgh, Pa. *Senior Fellow.* (**2**, 1939)

Renshaw, Birdsey, M.A., Ph.D. University of Oregon Medical School, Portland. (**1**, 1941)

Reynolds, Chapman, M.D. Louisiana State University, School of Medicine, New Orleans. *Assistant Professor of Pharmacology.* (**3**, 1937)

Reynolds, Orr E., Ph.D. Office of Naval Research, Med. Sciences Div., Washington, D. C. *Head, Physiology Branch.* (**1**, 1948)

Reynolds, Samuel R. M., Ph.D. 4028 Deepwood Rd., Baltimore 18, Md. *Carnegie Institution of Washington, Dept. of Embryology, Staff Member and Physiologist.* (**1**, 1932)

Reznikoff, Paul, M.D. New York Hospital, 525 E. 68th St., New York City. *Associate Professor of Clinical Medicine, Cornell University Medical College.* (**1**, 1927)

Rhoads, Cornelius Packard, M.D. Memorial Hospital, 444 E. 68th St., New York City. *Director; Professor of Pathology, Cornell University Medical College; Director of Sloan-Kettering Institute for Cancer Research.* (**4**, 1930)

Rhoads, Jonathan Evans, B.A., M.D., D.Sc. 4023 Pine St., Philadelphia 4, Pa. *Assistant Professor of Surgical Research.* (**1**, 1946)

Rice, Christine E., Ph.D. Animal Diseases Research Inst., Canadian Dept. of Agriculture, Hull, Quebec, Canada. *Agricultural Scientist.* (**6**, 1938)

Rice, Harold V., Ph.D. Univ. of Manitoba, Winnipeg, Manitoba, Canada. *Professor of Physiology.* (**1**, 1948)

Rice, James C., A.M., Ph.D. University of Mississippi, P. O. Box 475, University. *Professor of Pharmacology.* (**3**, 1941)

Rich, Arnold Rice, M.D. Johns Jopkins Hospital, Baltimore, Md. *Baxley Professor of Pathology, Johns Hopkins University.* (**4**, 1924)

Richards, Alfred N., Ph.D., Sc.D., M.D. (hon.), LL.D. Univ. of Pennsylvania School of Medicine, Philadelphia. *Emeritus Professor of Pharmacology; Chairman, National Academy of Sciences.* (**1R**, 1900; **2**, 1906; **3R**, 1909)

Richards, Oscar W., M.A., Ph.D. American Optical Co., Scientific Instrument Division, Box A. Buffalo 15, N. Y. *Chief Biologist.* (**1**, 1934)

Richards, Richard Kohn, M.D. Abbott Laboratories, North Chicago, Ill. *Director, Pharmacologic Research; Lecturer in Pharmacology, Northwestern University Medical School, Chicago.* (**1**, 1938; **3**, 1947)

Richardson, Arthur P., M.D. Department of Pharmacology, Emory University School of Medicine, Emory University, Ga. *Professor of Pharmacology.* (**3**, 1939)

Richardson, Luther R., Ph.D. P. O. Box 102, College Station, Texas. (**5**, 1942)

Richter, Curt P., Ph.D. Phipps Psychiatric Clinic, The Johns Hopkins Hospital, Baltimore, Md. *Associate Professor of Psycho-biology, Johns Hopkins University.* (**1**, 1924)

Richter, Maurice N., M.D. 303 E. 20th St., New York City. *Professor of Pathology, New York University Medical School; Director, Department of Pathology, New York Post-Graduate Hospital.* (**4**, 1931)

Ricketts, Henry T., M.D. Dept. of Medicine, University of Chicago, Chicago, Ill. *Associate Professor of Medicine.* (**1**, 1940)

Riegel, Byron, A.M., Ph.D. Department of Chemistry, Northwestern University, Evanston, Ill. *Professor.* (**2**, 1942)

Riegel, Cecilia, M.S., Ph.D. Room 563, University Hospital, Philadelphia, Pa. *Research Associate, Department of Research Surgery, University of Pennsylvania School of Medicine.* (**2**, 1938)

Ries, Fred A., M.D. 139 East North Ave., Baltimore 2, Md. *Instructor in Neurology, Johns Hopkins University.* (**1**, 1933)

Rigdon, R. H., M.D. Medical Banch, Univ. of Texas, Galveston. *Professor of Experimental Pathology.* (**4**, 1941)

Riggs, Douglas S., M.D. Harvard Medical School, Boston, Mass. *Instructor in Pharmacology.* (**3**, 1948)

Riggs, Lloyd K., Ph.D. National Dairy Research

Laboratories, Oakdale, L. I., N. Y. *Director, Nutritional Res.* (2, 1929)

Riker, Walter F., Jr., M.D. Cornell University Medical College, 1300 York Avenue, New York, 21, N. Y. *Assistant Professor of Pharmacology.* (3, 1947)

Riley, Richard L., M.D. Columbia Univ., New York City. *Asso. in Medicine.* (1, 1948)

Rinehart, James F., M.D. University of California Medical School, Parnassus and Third Aves., San Francisco. *Professor of Pathology.* (4, 1933)

Ring, Gordon C., M.A., Ph.D. Temple University Medical School, Broad St., Philadelphia, Pa. (1, 1933)

Rioch, David McKenzie, M.D. Chestnut Lodge Sanitarium, 500 W. Montgomery Ave., Rockville, Md. *Director of Research.* (1, 1931)

Rittenberg, David, Ph.D. 630 W. 168th St., New York City. *Associate Professor, College of Physicians and Surgeons, Columbia University.* (2, 1939)

Ritzman, E. G., A.M., Science (hon.). University of New Hampshire, Durham. *Research Professor.* (5, 1933)

Rivers, T. M., M.D., Sc.D. The Hospital of the Rockefeller Institute for Medical Research, 66th St. and York Ave., New York City. *Director of the Hospital; Member of the National Academy of Sciences.* (4, 1925; 6, 1921)

Robb, Jane Sands, Sc.D., M.D. College of Medicine, Syracuse University, 761 Irving Ave., Syracuse, N. Y. *Associate Professor of Pharmacology.* (1, 1924)

Robbie, W. A., M.S., Ph.D. Department of Ophthalmology, College of Medicine, State University of Iowa, Iowa City. *Research Associate Professor of Ophthalmology and Physiology.* (1, 1947)

Robbins, Benjamin Howard, M.S., M.D. Vanderbilt Univ. School of Medicine, Nashville, Tenn. *Associate Professor of Pharmacology.* (3, 1936)

Robbins, Mary L., B.A., M.A., Ph.D. George Washington Univ. School of Medicine, 1335 H. Street, N.W., Washington 5, D. C. *Asst. Professor of Bacteriology.* (6, 1946)

Roberts, Edward F., M.D., Ph.D. Wyeth, Inc. 1600 Arch St., Philadelphia 3, Pa. *Director of Clinical Investigation.* (6, 1932)

Roberts, Joseph T., M.S., M.D., Ph.D. Veterans Administration, Buffalo, N. Y. *Chief of Medical Service.* (1, 1947)

Roberts, Lydia J., Ph.D. University of Chicago, Chicago, Ill. *Professor and Chairman of Department of Home Economics.* (5, 1933)

Roberts, Sidney, S.B., M.S., Ph.D. University of California, Medical School, Los Angeles. *Assistant Clinical Professor of Physiological Chemistry.* (1, 1946)

Robertson, Elizabeth Chant, M.D., M.A., Ph.D. University of Toronto, Toronto, Canada. *Research Fellow in Paediatrics.* (5, 1939)

Robertson, Oswald H., M.D. University of Chicago, Chicago, Ill. *Professor of Medicine.* (4, 1932)

Robinson, Charles Summers, Ph.D. Medical School, Vanderbilt University, Nashville, Tenn. *Professor of Biochemistry.* (2, 1925)

Robinson, Elliott S., B.A., M.D., Ph.D. R.F.D. #4, Laconia, N. H. *Director, Division of Biologic Laboratories, Mass. Dept. of Health.* (*Leave of Absence*). (6, 1935)

Robinson, G. Canby, M.D., Sc.D., LL.D. Johns Hopkins Hospital, Baltimore, Md. *Lecturer in Medicine, Johns Hopkins University.* (1R, 1912; 3, 1921)

Robinson, Harry J., Ph.D. Merck Institute for Therapeutic Research, Rahway, N. J. *Assistant Director.* (3, 1946)

Robinson, Herbert E., Ph.D. Swift and Company, Research Laboratories, Union Stock Yards, Chicago 9, Ill. *Assistant Director of Research.* (5, 1947)

Robinson, Howard W., M.S., Ph.D. Broad and Ontario Sts., Philadelphia, Pa. *Professor of Physiological Chemistry, Temple University School of Medicine.* (2, 1929)

Robinson, Sid, Ph.D. Indiana University Medical School, Bloomington. *Professor of Physiology.* (1, 1941)

Robinson, True W., Ph.D. Wright-Patterson Air Force Base, Aero Medical Lab., Dayton, Ohio. *Chief, Metabolism Unit.* (1, 1948)

Roblin, Richard O., Jr., M.A., Ph.D. 1937 West Main St., Stamford, Conn. *Director, Chemotherapy Division, American Cyanamid Co.* (2, 1946; 6, 1947)

Robscheit-Robbins, F. S., Ph.D. University of Rochester School of Medicine and Dentistry, Rochester, N. Y. *Associate in Pathology.* (1, 1925; 4, 1930)

Rodbard, Simon, Ph.D. Cardiovascular Dept., Michael Reese Hospital, 29th and Ellis Aves., Chicago, Ill. (1, 1942)

Roe, Joseph Hyram, M.A., Ph.D. George Washington University School of Medicine, Washington, D. C. *Professor of Biochemistry.* (2, 1927; 5, 1933)

Roeder, Kenneth D., M.A. Tufts College, Medford, Mass. *Associate Professor of Biology.* (1, 1942)

Roepke, Martin Henry, Ph.D. University Farm, St. Paul, Minn. *Professor, Veterinary Medicine.* (3, 1937)

Rogers, Fred T., A.M., Ph.D., M.D. Dallas Medical and Surgical Clinic, 4105 Live Oak St., Dallas 1, Texas. (1, 1917)

Rogoff, Julius M., Ph.G., M.D., Sc.D. School of

Medicine, University of Pittsburgh, Pittsburgh, Pa. *Professor of Endocrinology.* (**1**, 1916; **3**, 1916)

Ronzoni, Ethel, M.A., Ph.D. Washington University Medical School, St. Louis 4, Mo. *Assistant Professor of Biological Chemistry.* (**2**, 1923)

Root, Howard F., M.D. 44 Dwight St., Brookline, Mass. *Associate in Medicine, Harvard Medical School.* (**5**, 1933)

Root, Walter S., Ph.D. College of Physicians and Surgeons, Columbia University, 630 W. 168th St., New York City. *Professor of Physiology.* (**1**, 1932)

Rosahn, Paul D., M.D. 92 Grand St., New Britain, Conn. *Pathologist, New Britain General Hospital; Associate Clinical Professor of Pathology, Yale University School of Medicine, New Haven.* (**4**, 1934)

Rose, William C., Ph.D., D.Sc. University of Illinois, Urbana. *Professor of Biochemistry, and Acting Head of Chemistry Dept.; Member, National Academy of Sciences.* (**2**, 1912; **5**, 1933)

Rosenblueth, Arturo, M.D. Instituto Nacional de Cardiologia, Calzada de la Piedad 300, Mexico D.F., Mexico. (**1**, 1932)

Rosenfeld, Morris, M.D. Johns Hopkins School of Medicine, Baltimore, Md. *Associate in Pharmacology and Experimental Therapeutics. Captain, M.C., U.S.A.* (**3**, 1934)

Rosenow, Edward C., M.D., hon. LL.D. and D.Sc. Research Dept., Longview State Hospital, Cincinnati 16, Ohio. (**4**, 1913; **6**, 1915)

Rosenthal, Otto, M.D. University of Pennsylvania School of Medicine, Philadelphia, Pa. *Asst. Prof. of Cancer Research, Harrison Dept. of Surgical Research.* (**2**, 1946)

Rosenthal, Sanford M., M.D. National Institute of Health, Bethesda, Md. *Senior Pharmacologist, U. S. Public Health Service.* (**3**, 1925)

Rosenthal, S. R., M.D., Ph.D. University of Illinois College of Medicine, Chicago. *Assistant Professor of Bacteriology and Public Health; Director, Tice Laboratory for B. C. G. Vaccination against Tuberculosis, Municipal Tuberculosis Sanatorium.* (**1**, 1948; **4**, 1941)

Ross, Joseph F., M.D. The Robert Dawson Evans Memorial, 65 E. Newton St., Boston, Mass. *Member of the Department; Physician, Massachusetts Memorial Hospital; Associate Professor of Medicine, Boston University School of Medicine.* (**4**, 1941)

Rossiter, R. J., Ph.D., F.R.I.C. Univ. of Western Ontario, London, Ontario, Canada. *Professor of Biochemistry.* (**2**, 1948)

Rostorfer, Howard Hayes, B.A., M.S., Ph.D. Department of Physiology, Indiana University, Bloomington, Indiana. *Assistant Professor of Physiology.* (**1**, 1946)

Roth, Grace M., M.S., Ph.D. Mayo Clinic, Rochester, Minn. *Associate in Clinical Physiology.* (**1**, 1939)

Roth, L. W., M.A., Ph.D. Department of Pharmacology, The Abbott Research Laboratories, North Chicago, Ill. *Research Pharmacologist.* (**1**, 1947)

Rothemund, Paul W. K., Dipl.-Ing., Dr.-Ing. (Munich). Antioch College, Yellow Springs, O. *Professor of Chemistry and Research Chemist, The C. F. Kettering Foundation; Associate Professor, Department of Chemistry, Ohio State University.* (**2**, 1940)

Rous, Peyton, M.D., Sc.D. Rockefeller Institute for Medical Research, York Ave. at 66th St., New York City. *Member; Member of the National Academy of Sciences.* (**4**, 1913)

Routh, Joseph I., M.S., Ph.D. State University of Iowa, Iowa City. *Associate Professor of Biochemistry.* (**2**, 1942)

Rovenstine, Emery Andrew, A.B., M.D. 477 First Ave., New York, N. Y. *Professor of Anesthesia, New York University; Director, Division of Anesthesia, Bellevue Hospital* (**3**, 1944)

Rowntree, Jennie I., M.S., Ph.D. University of Washington, Seattle. *Professor of Home Economics.* (**5**, 1933)

Rowntree, L. G., M.D., Sc.D., F.A.C.P. DuPont Building, E. Flagler St. at 2nd Ave., Miami, Fla. (**1**, 1911; **2**, 1910; **3**, 1908; **4**, prior to 1920; **5**, 1933)

Rubenstein, Boris B., Ph.D., M.D. Dept. of Metabolic & Endocrine Research, Michael Reese Hospital, East 59th St. & Ellis Ave., Chicago, Ill. (**1**, 1934)

Rubin, Saul H., M.S., Ph.D. Hoffmann-La Roche, Inc., Nutley 10, N. J. *Director,* Nutrition Laboratories. (**2**, **5**, 1947)

Ruch, Theodore C., M.A., Ph.D. 204B Physiology Hall, University of Washington, Seattle 5. *Professor of Physiology and Biophysics.* (**1**, 1933)

Ruchman, Isaac, Ph. D. Cincinnati General Hospital, Cincinnati, Ohio. *Asst. Professor of Bacteriology.* (**6**, 1948)

Rusch, Harold Paul, M.D. University of Wisconsin Medical School, McArdle Memorial Laboratory, Madison 6. *Professor of Oncology. Director of McArdle Memorial Laboratory for Cancer Research.* (**4**, 1940)

Rusoff, Louis L., Ph.D. Louisiana State Univ, Baton Rouge, La. *Assoc. Dairy Nutritionist in Experiment Station and Assoc. Professor of Nutrition.* (**5**, 1948)

Russell, Walter C., Ph.D., Sc.D. (hon.) New Jersey Agricultural Experiment Station, Rutgers University, New Brunswick. *Research Specialist and Professor of Agricultural Biochemistry.* (**2**, 1932; **5**, 1933)

Ryan, Andrew Howard, M.D. Chicago Medical School, 710 S. Wolcott Ave., Chicago, Ill. *Asso-*

ciate Professor of Physiology and Pharmacology. (**1,** 1912)

Rytand, David A., M.D. Stanford Univ. Hospital, San Francisco 15, Calif. *Associate Professor of Medicine, Stanford Univ. School of Medicine.* (**3,** 1946)

Sabin, Albert, A.S., M.D. Children's Hospital Research Foundation, Cincinnati, Ohio. *Professor of Research Pediatrics, Univ. of Cincinnati.* (**6,** 1946)

Sacks, Jacob, Ph.D., M.D. Biology Dept., Brookhaven National Laboratory, Upton, L. I., N. Y. *Scientist.* (**1,** 1948; **3,** 1933)

Sah, Peter P. T., M.S., Ph.D. Division of Pharmacology and Experimental Therapeutics, Univ. of Calif., San Francisco, Calif. *Lecturer in Pharmacology.* (**3,** 1941)

Sahyun, Melville, A.M., Ph.D. Frederick Stearns and Company Division, Sterling Drug, Inc., Detroit, Mich. *Vice President and Director of Research.* (**2,** 1932)

Salk, Jonas E., M.D. School of Medicine, University of Pittsburgh, Pittsburgh, Penn. *Associate Research Professor of Bacteriology.* (**6,** 1947)

Salmon, W. D., A.M. Alabama Polytechnic Institute, Auburn. *Animal Nutritionist.* (**2,** 1929; **5,** 1933)

Salter, William T., B.A., M.D. Yale School of Medicine, 333 Cedar St., New Haven, Conn. *Professor of Pharmacology.* (**1,** 1933; **3,** 1942; **5,** 1934)

Sammis, Florence E., M.D. 133 E. 58th St., New York City. *Physician, Allergy, O.P.D., New York Hospital.* (**6,** 1943)

Sampson, John J., M.D. 490 Post St., San Francisco, Calif. (**1,** 1932)

Sampson, Myra M., A.M., Ph.D. Smith College, Northampton, Mass. *Professor of Zoology.* (**5,** 1935)

Samuels, Leo T., Ph.D. University of Utah Medical School, Salt Lake City. *Professor and Head of Dept. of Biochemistry.* (**2,** 1941; **3,** 1937)

Sandels, Margaret R., A.M., Ph.D. Florida State University, Tallahassee. *Dean of School of Home Economics; Professor of Nutrition.* (**5,** 1933)

Sandiford, Irene, Ph.D. Billings Hospital, University of Chicago, Chicago, Ill. *Assistant Professor of Medicine.* (**2,** 1925; **5,** 1933)

Sandow, Alexander, Ph.D. Washington Square College, New York University, New York 3, N. Y. *Assistant Professor of Biology.* (**1,** 1945)

Sandweiss, David J., M.D. 9739 Dexter Ave., Detroit, Mich. *Instructor in Clinical Medicine, Wayne University College of Medicine; Physician, Harper Hospital (OPD); Attending Physician Gastroenterology and Gastroscopy, North End Community Fund Clinic.* (**1,** 1944)

Sanford, Arthur H., A.M., M.D. Clinical Laboratories, Mayo Clinic, Rochester, Minn. *Head, Division of Clinical Laboratories.* (**6,** 1920)

Santos, Francisco O., M.S., Ph.D. University of the Philippines, Los Banos, Laguna. *Professor and Head of Department of Agricultural Chemistry, College of Agriculture.* (**5,** 1936)

Saphir, Otto, M.D. Michael Reese Hospital, 29th St. and Ellis Ave., Chicago 16, Ill. *Pathologist, Michael Reese Hospital; Clinical Professor of Pathology, University of Illinois Medical School.* (**4,** 1927)

Saphra, Ivan, M.D. Beth Israel Hospital, New York City. *Assoc. Bacteriologist.* (**6,** 1946)

Sarett, Herbert P., M.S., Ph.D. Tulane Medical School, 1430 Tulane Ave., New Orleans 13, La. *Assistant Professor of Biochemistry.* (**2,** 1946; **5,** 1947)

Saslow, George, Ph.D., M.D. Department of Neuropsychiatry, Washington University Medical School, 640 South Kingshighway, St. Louis, Mo. *Assistant Professor of Psychiatry, Associate Physician to the Student Health Service.* (**1,** 1936)

Satterfield, G. Howard, A.M. State College of Agriculture and Engineering, University of North Carolina, Raleigh. *Professor of Biochemistry.* (**2,** 1944; **5,** 1941)

Saul, Leon Joseph, M.A., M.D. Room 1907, 255 S. 17th St., Philadelphia 3, Pa. (**1,** 1933)

Saunders, Felix, Ph.D. 231 Playa del Sur, La Jolla, Calif. (**2,** 1938)

Sawyer, Margaret E. MacKay, M.A., Ph.D. 142 Lower Albert St., Kingston, Ontario, Canada. (**1,** 1935)

Sawyer, Wilbur A., M.D. 3927 Idaho Ave., N.W., Washington, D. C. (**4,** 1930)

Saxton, John A., Jr., M.D. Snodgrass Laboratory of Pathology and Bacteriology, 1430 Carroll St., St. Louis, Mo. *Assistant Professor of Pathology, Washington University School of Medicine; Laboratory Director, Hospital Division, City of St. Louis.* (**4,** 1944)

Sayers, George, M.S., Ph.D. Department of Pharmacology, University of Utah, Salt Lake City 1, Utah. *Assistant Professor of Pharmacology.* (**1,** 1948; **3,** 1947)

Scammon, Richard E., M.A., Ph.D. 172 S. E. Bedford St., Minneapolis, Minn. *Distinguished Service Professor in the Graduate School, University of Minnesota.* (**1,** 1923)

Scantlebury, Ronald E., Ph.D. Stanford Univ. Res. Inst., Stanford, Calif. *Director, Dept. of Physiology.* (**1,** 1948)

Schales, Otto, D.Sc. Ochsner Clinic, Prytania and Aline Sts., New Orleans, La. *Director of Chemical Research, Ochsner Foundation; Director of the*

Biochemical Laboratory, Ochsner Clinic; Assistant Professor of Biochemistry, Tulane University School of Medicine. (2, 1944)

Scharles, Frederick H., M.D. 911 Alma Ave., Oakland, Calif. (5, 1935)

Schattenberg, Herbert John, M.S., M.D. Laboratory of Clinical Pathology, 220–222 Medical Arts Bldg., San Antonio, Texas. *Director.* (4, 1940)

Schenken, John R., M.D. Univ. of Nebraska College of Medicine, Omaha, Neb. *Professor of Pathology and Bacteriology.* (4, 1942)

Scherago, Morris, D.V.M. Univ. of Kentucky, Lexington, Ky. *Professor and Head, Dept. of Bacteriology.* (6, 1948)

Scherp, Henry W., M.S., Ph.D. Univ. of Rochester School of Medicine and Dentistry, 260 Crittenden Blvd., Rochester 7, N. Y. *Associate Professor of Bacteriology and Immunology.* (6, 1940)

Schick, Bela, M.D. 17 E. 84th St., New York City. *Pediatrician, Mt. Sinai Hospital, Sea View Hospital.* (6, 1924)

Schiffrin, Milton J., M.S., Ph.D. Hoffmann-LaRoche, Inc., Chicago, Ill. *Research Consultant.* (1, 1943)

Schiller, Alfred A., M.D. Univ. of Illinois Col. of Med., Chicago, Ill. *Asst. Professor of Physiology.* (1, 1948)

Schlenk, Fritz, Ph.D. Science Hall, Iowa State College, Ames. *Professor of Bacteriology.* (2, 1942)

Schlesinger, M. J., Ph.D., M.D. Beth Israel Hospital, 330 Brookline Ave., Boston, Mass. *Assistant Professor of Pathology, Harvard Medical School; Director of Pathology, Beth Israel Hospital.* (4, 1942; 6, 1921).

Schlomovitz, Benjamin H., M.D. 1210 Majestic Bldg., 231 W. Wisconsin Ave., Milwaukee, Wis. *Director, Clinical and Research Laboratory, Veterans Administration Hospital, Wood, Wisconsin.* (1, 1919)

Schlumberger, Hans G., M.D. Ohio State University School of Medicine, Columbus. *Associate Professor in Pathology.* (4, 1945)

Schmeisser, Harry C., M.D. University of Tennessee, Memphis. *Professor of Pathology.* (4, 1937)

Schmidt, Carl F., M.D. Medical School, University of Pennsylvania, Philadelphia. *Professor of Pharmacology.* (1, 1929; 3, 1924)

Schmidt, C. Robert, Ph.D., M.D. Hertzler Clinic, Halstead, Kan. *Resident Surgeon. Major (MC) A.U.S.* (1, 1940)

Schmidt, Gerhard, M.D. Boston Dispensary, 25 Bennett St., Boston, Mass. *Senior Research Fellow, Tufts College Medical School.* (2, 1939)

Schmidt, L. H., Ph.D. Christ Hospital Institute of Medical Research, Cincinnati, O. *Director of Research; Associate Research Professor of Biochemistry, College of Medicine, University of Cincinnati.* (2, 1936; 3, 1946)

Schmitt, Francis Otto, Ph.D. Dept. of Biology, Massachusetts Institute of Technology, Cambridge. *Professor of Biology.* (1, 1930)

Schmitt, Otto H., Ph.D. Department of Physics, University of Minnesota, Minneapolis 14. *Associate Professor of Zoology and Physics.* (1, 1947)

Schnedorf, Jerome G., M.D., Ph.D. 3111 Argonne Circle, Santa Barbara, Calif. (1, 1941)

Schneider, Edward C., Ph.D., Sc.D., 25 Gordon Place, Middletown, Conn. *Professor of Biology (retired), Wesleyan University.* (1R, 1912; 2, 1912)

Schneider, Howard A., M.S., Ph.D. The Rockefeller Institute for Medical Research, 66th Street and York Avenue, New York 21, N. Y. *Associate.* (5, 1947)

Schneierson, S. Stanley, M.D. Mount Sinai Hospital, 2 East 100th St., New York 29, N. Y. *Associate Bacteriologist.* (6, 1946)

Schoenbach, Emanuel B., M.D. Johns Hopkins School of Hygiene, 615 N. Wolfe St., Baltimore, Md. *Associate Professor of Preventive Medicine.* (6, 1941)

Schoepfle, Gordon M., A.M., Ph.D. Washington University, School of Medicine, St. Louis, Mo. *Assistant Professor of Physiology.* (1, 1943)

Scholander, P. F., M.D., Ph.D. Department of Zoology, Swarthmore College, Swarthmore, Pa. *Research Biologist.* (1, 1947)

Schradieck, Constant E., M.D. General Delivery Germantown, Philadelphia, Pa. (6, 1921)

Schreiner, Oswald, M.S., Ph.D. Bureau of Plant Industry, U. S. Department of Agriculture, Washington 25, D. C. *Chief, Division of Soil Fertility Investigations.* (2, 1908)

Schroeder, E. F., M.S., Ph.D. G. D. Searle & Co., P. O. Box 5110, Chicago 80, Ill. *Research Biochemist.* (2, 1938)

Schroeder, Henry A., M.D. Hypertension Division, Department of Internal Medicine, Washington University, 640 S. Kingshighway, St. Louis 10, Mo. (1, 1947)

Schubert, Maxwell, A.M., Ph.D. Department of Therapeutics, N.Y.U. College of Medicine, 477 First Avenue, New York 10, N. Y. *Research Associate in Therapeutics.* (3, 1947)

Schuck, Cecelia, Ph.D. Purdue University, Lafayette, Ind. *Professor of Nutrition, Department of Home Economics.* (5, 1941)

Schultz, Edwin William, M.D. 743 Cooksey Lane, Stanford University, Calif. *Professor of Bacteriology and Experimental Pathology.* (4, 1927; 6, 1928)

Schultz, Fred H., Jr., Ph.D. Commercial Sol-

vents Corporation, Terre Haute, Ind. *Research Pharmacologist.* (3, 1948)

Schultze, Max O., Ph.D. Division of Agricultural Biochemistry, Univ. of Minnesota, St. Paul 8, Minn. *Professor.* (2, 1938)

Schweizer, Malvina, Ph.D. Washington Square College of Arts and Sciences, New York University, New York, N. Y. *Instructor in Biology.* (1, 1944)

Schwerma, Henry, Ph.D. Northwestern Univ., Chicago, Ill. *Instr. in Physiology.* (1, 1948)

Schwimmer, Sigmund, M.S., Ph.D. Enzyme Research Laboratory, 800 Buchanan Street, Albany 6, Calif. *Chemist,* U. S. Department of Agriculture, U. S. Bureau of Agricultural and Industrial Chemistry. (2, 1947)

Scott, Charles Covert, Ph.D., M.D. Inlow Clinic, Shelbyville, Ind. (3, 1945)

Scott, David Alymer, M.A., Ph.D. Connaught Laboratories, University of Toronto, Toronto 5, Ontario, Canada. *Research Member.* (2, 1935)

Scott, Ernest L., Ph.D. 64 South St., Bogota, N.J. *Associate Professor of Physiology, Emeritus, Columbia University.* (1R, 1914; 2, 1915)

Scott, Frederick Hughes, Ph.D., Sc.D., M.B. University of Minnesota, Minneapolis. *Professor of Physiology, Emeritus.* (1R, 1908; 2, 1909)

Scott, John C., Ph.D. Hahnemann Medical College, Philadelphia, Pa. *Professor of Physiology and Head of the Department.* (1, 1936)

Scott, R. W., A.M., M.D. City Hospital, Cleveland, O. *Professor of Clinical Medicine, Western Reserve University; Physician-in-Chief, Cleveland City Hospital.* (1, 1917; 3, 1917)

Scott, V. Brown, Ph.D., M.D. Inlow Clinic, Shelbyville, Ind. *Internist, Division of Medicine.* (1, 1941)

Scott, W. J. Merle, M.D. University of Rochester Medical School, Rochester, N. Y. *Associate Professor of Surgery.* (4, 1925)

Scott, W. W., Ph.D., M.D. Brady Urological Inst., The Johns Hopkins Hospital, Baltimore 5, Md. (1, 1943)

Scudi, John V. Ph.D. Pyridium Corporation, Nepera Park, Yonkers 2, N. Y. *Director of Research.* (2, 1942; 5, 1945)

Seager, Lloyd D., M.S., M.D. Woman's Medical College of Pennsylvania, East Falls, Philadelphia. *Professor of Pharmacology and Toxicology.* (3, 1939)

Sealock, Robert R., Ph.D. Iowa State College, Ames. *Associate Professor of Chemistry.* (2, 1940; 5, 1941)

Seastone, C. V., Jr., M.D. University of Wisconsin Medical School, Madison. *Professor of Medical Bacteriology; Dept. Chairman.* (6, 1939)

Sebrell, W. H., Jr., M.D. National Institutes of Health, Bethesda, Md. *Director, Experimental Biology and Medicine Institute; Professorial Lecturer on Nutrition, George Washington University.* (2, 1938; 5, 1937)

Seecof, David P., M.D. 1970 Daly Ave., Bronx, New York City. (4, 1927)

Seegal, David, M.D. Maimonides Hospital, Brooklyn, N. Y. *Director of Medical Services.* (6, 1930)

Seegers, Walter H., Ph.D. Wayne University College of Medicine, Detroit 26, Mich. *Professor of Physiology.* (1, 1947; 2, 1941)

Seevers, Maurice Harrison, Ph.D., M.D. University of Michigan, Ann Arbor. *Professor of Pharmacology.* (1, 1933; 3, 1930)

Segaloff, Albert, M.D. Alton Ochsner Medical Foundation, 3503 Prytania St., New Orleans, La. *Director of Endocrine Research.* (4, 1946)

Seibert, Florence B., Ph.D., Sc.D., LL.D. Henry Phipps Institute, University of Pennsylvania, 7th and Lombard Sts., Philadelphia. *Associate Professor of Biochemistry.* (2, 1925)

Seidell, Atherton, M.S., Ph.D. 2301 Connecticut Ave., Washington, D. C. *Special Expert, National Institute of Health.* (2, 1924)

Seifter, Joseph, M.D. Wyeth Institute of Applied Biochemistry, Philadelphia, Pa. *Director of Research.* (3, 1940)

Seifter, Sam, M.S., Ph.D. 350 Henry St., Brooklyn 2, N. Y. *Assistant Professor of Biochemistry, Long Island College of Medicine.* (2, 1946)

Selkurt, Ewald E., Ph.D. School of Medicine, Western Reserve University, Cleveland 6, O. *Senior Instructor in Physiology.* (1, 1945)

Selle, Wilber Arthur, Ph.D. Medical School, University of Texas, Galveston. *Professor of Physiology.* (1, 1938)

Sellers, E. A., M.D., Ph.D. Department of Physiology, University of Toronto, Ontario, Canada. *Assoc. Professor of Physiology; Assoc. Professor in the Banting and Best Dept. of Medical Research.* (1, 1947)

Selye, Hans, M.D., Ph.D., D.Sc., F.R.S.(c.) Inst. of Experimental Medicine and Surgery, Univ. of Montreal, Montreal, Canada. *Professor and Director.* (1, 1934)

Sendroy, Julius, Jr., M.A., Ph.D. Naval Medical Research Institute, National Naval Medical Center, Bethesda, Md. *Chief Chemist.* (2, 1928)

Sevag, M. G., Ph.D. Department of Bacteriology, University of Pennsylvania School of Medicine, Philadelphia. *Associate Professor of Biochemistry in Bacteriology.* (6, 1941)

Sevringhaus, Elmer L., M.A., M.D. Hoffmann-LaRoche, Inc., Nutley 10, N. J. *Director of Clinical Research; Clinical Professor of Medicine, New York Medical College; Director, Endocrinology and Metabolism, Jersey City Med. Center.* (2, 1923; 5, 1939)

Shaffer, Morris F., D. Phil. Department of Pathol-

ogy and Bacteriology, School of Medicine, Tulane University of Louisiana, New Orleans. *Head of Department.* (**4**, 1939; **6**, 1937).

Shaffer, Philip A., Ph.D. Washington University Medical School, St. Louis 40, Mo. *Distinguished Service Professor of Biological Chemistry; Member National Academy of Sciences.* (**2**, 1906; **5**, 1935)

Shanes, Abraham M., M.S., Ph.D. Dept. of Physiology and Biophysics, Georgetown Univ. School of Medicine, Washington 7, D.C. (**1**, 1946)

Shank, Robert E., M.D. Washington University Sch. of Med., St. Louis, Mo. *Prof. of Preventive Med.* (**2**, 1947)

Shannon, James A., Ph.D., M.D. Squibb Institute for Medical Research, New Brunswick, N. J. *Director, Squibb Institute for Medical Research.* (**1**, 1933; **3**, 1945)

Shapiro, Herbert, Ph.D. Henry Phipps Institute, 7th & Lombard St., Philadelphia 47, Pa. *Res. Associate.* Bethesda 14, Md. (**1**, 1937)

Sharpless, George R., M.S., Sc.D. Lederle Laboratories, Pearl River, N. Y. *Research Biochemist.* (**5**, 1942)

Shaw, J. C., M.S., Ph.D. Department of Dairy Husbandry, University of Maryland, College Park, Md. *Professor.* (**1**, 1947)

Shaw, James H., Ph.D. Harvard School of Dental Medicine, Boston, Mass. *Assoc. in Nutrition* (**5**, 1948)

Shaw, Myrtle, M.S., Ph.D. 11 S. Lake Ave., Albany, N. Y. *Senior Bacteriologist, Division of Laboratories and Research, New York State Department of Health.* (**6**, 1937)

Shay, Harry, M.D. Temple University School of Medicine, Philadelphia, Pa. *Director, Fels Research Institute and Clinical Professor of Medicine.* (**1**, 1944)

Shear, M. J., Ph.D. National Cancer Institute, Bethesda, Md. *Chief Biochemist and Chairman, Chemotherapy Section.* (**2**, 1930)

Sheard, Charles, A.M., Ph.D. Mayo Foundation, Rochester, Minn. *Chief of the Division of Physics and Biophysical Research and Professor of Physiological Optics and Biophysics, University of Minnesota.* (**1**, 1925)

Sheehan, Donal, M.D., D.Sc. The Commonwealth Fund, New York City. *General Director.* (**1**, 1938)

Shelesnyak, M. C., Ph.D. Office of Naval Research, Med. Sciences Div., Washington, D. C. *Head, Human Ecology Branch.* (**1**, 1948)

Shelley, Walter Brown, Ph.D., M.D. University of Pennsylvania School of Medicine. *Assistant Instructor of Dermatology.* (**1**, 1946)

Shemin, David, A.M., Ph.D. Columbia University, College of Physicians and Surgeons, 630 W. 168th St., New York City. *Assistant Professor of Biochemistry.* (**2**, 1944)

Sheppard, Fay, M.S. University of Oklahoma Medical School, Oklahoma City. *Instructor in Biochemistry.* (**2**, 1936)

Sherman, Henry C., A.M., Ph.D., Sc.D. Columbia University, New York City. *Mitchell Professor Emeritus of Chemistry; Member, National Academy of Sciences.* (**1R**, 1923; **2**, 1906; **5**, 1933)

Sherwin, Carl Paxson, Sc.D., M.D., Dr.P.H., LL.D. 6 Carstensen Rd., Scarsdale, N. Y. *Director of Metabolic Service, St. Vincent's Hospital; Associate Physician, French Hospital.* (**1**, 1919; **2**, 1917)

Sherwood, Noble P., Ph.D., M.D. 517 Snow Hall, Univ. of Kansas, Lawrence, Kan. *Professor of Bacteriology.* (**6**, 1928)

Sherwood, Thomas Cecil, M.A., Ph.D., M.D. 1824 Robert St., New Orleans, La. Southern Baptist Hospital. *Staff Member, Internal Medicine.* (**1**, 1938)

Shettles, Landrum B., Ph.D., M.D. College of Physicians and Surgeons, Columbia Presbyterian Medical Center, Box 330, 622 W. 168th St., New York City. (**1**, 1946)

Shideman, Frederick E., B.A., Ph.D. Dept. of Pharmacology, University of Michigan, Ann Arbor. *Instructor of Pharmacology.* (**3**, 1944)

Shimkin, Michael Boris, M.D. University of California Medical School, San Francisco. *Director, Laboratory of Experimental Oncology.* (**4**, 1940)

Shipley, Reginald A., M.D. Western Reserve University School of Medicine, Cleveland 6, O. *Assistant Professor of Medicine.* (**1**, 1945)

Shipley, Robert E., M.D. Lilly Laboratory for Clinical Research, Indianapolis City Hospital, Indianapolis, Ind. (**1**, 1945)

Shive, William, Ph.D. Univ. of Texas, Austin, Texas. *Assoc. Professor of Chemistry.* (**2**, 1948)

Shlaer, Simon, M.A., Ph.D. Box 1663, Los Alamos, New Mexico. (**1**, 1938)

Shock, Nathan W., Ph.D. Section on Gerontology, U. S. Public Health Service, Baltimore City Hospitals, Baltimore 24, Md. *Chief, Section on Gerontology, U. S. Public Health Service, National Institute of Health, Bethesda, Md.* (**1**, 1942)

Shoemaker, Harold A., M.S., Ph.D. University of Oklahoma School of Medicine, 801 E. 13th St., Oklahoma City. *Assistant Dean; Professor of Pharmacology.* (**3**, 1941)

Shope, Richard E., M.D. Ridge Road, Kingston, N. J. (**4**, 1934)

Shorr, Ephraim, B.A., M.D. The New York Hospital, 525 East 68th St., New York City. *Assistant Professor of Medicine, Cornell University Medical College; Assistant Attending Physician, The New York Hospital.* (**1**, 1931; **3**, 1942)

Shrigley, E. W., PhD., M.D. Yale University School of Medicine, Dept. of Bacteriology and

Immunology, New Haven, Conn. *Asst. Professor of Bacteriology.* (**6**, 1946)

Shwartzman, Gregory, M.D. 230 E. 50th St., New York City. *Head of Department of Bacteriology, Mount Sinai Hospital; Professor of Bacteriology, Columbia University.* (**4**, 1929; **6**, 1930)

Sichel, F. J. M., Sc.M., Ph.D. College of Medicine, University of Vermont, Burlington. *Associate Professor of Physiology.* (**1**, 1939)

Sickles, Grace M., B.A. 2201 Twelfth St., Troy, N. Y. *Associate Bacteriologist, Division of Laboratories and Research, New York State Department of Health.* (**6**, 1932)

Sickles, Gretchen R., A.B. Division of Laboratories and Research, New York State Department of Health, Albany, N. Y. *Assistant Bacteriologist.* (**6**, 1937)

Siebenmann, Charles O., Ch.E., D. Eng. Connaught Medical Research Laboratories, Univ. of Toronto, Toronto 5, Ontario, Canada. *Research Associate.* (**3**, 1946)

Siebert, Walter J., M.D. Lutheran Hospital, St. Louis, Mo. *Director of Laboratories and Pathologist.* (**4**, 1932)

Silber, Robert H., Ph.D. Merck Institute for Therapeutic Research, Linden, N. J. *Department Head.* (**2**, 1948)

Silberberg, Martin, M.D. Snodgras Laboratory of Pathology, City Hospital, 1430 Carrol St., St. Louis 4, Mo. *Instructor in Pathology, Washington University, School of Medicine.* (**4**, 1944)

Silberberg, Ruth, M.D. Snodgras Laboratory of Pathology, City Hospital, 1430 Carroll St., St. Louis 4, Mo. *Instructor in Pathology, Washington University, School of Medicine.* (**4**, 1944)

Silvette, Herbert, M.S., Ph.D. University of Virginia Medical School, University, Va. (**IR**, 1943; **3**, 1940)

Simmonds, Sofia, Ph.D. Yale Univ., Osborn Botanical Laboratory, New Haven, Conn. *Instructor in Microbiology.* (**2**, 1948)

Simon, Frank A., M.D. 332 West Broadway, Louisville, Ky. (**6**, 1934)

Simonds, James P., Ph.D., M.D. Northwestern University Medical School, 234 E. Pearson St., Chicago 2, Ill. *Emeritus Professor of Pathology.* (**4**, prior to 1920)

Simonson, Ernst, M.D. c/o Laboratory of Physiological Hygiene, Stadium South Tower, University of Minnesota, Minneapolis 14. *Associate Professor of Physiology.* (**1**, 1941)

Simpson, Miriam E., M.A., Ph.D., M.D. Div. of Anatomy, Univ. of Calif., Berkeley, Calif. *Professor of Anatomy.* (**1**, 1946)

Sinclair, Robert Gordon, Ph.D., F.R.S.C. Queen's University, Kingston, Ont., Canada. *Professor of Biochemistry.* (**2**, 1931)

Singal, Sam A., Ph.D. Univ. of Georgia School of Medicine, Augusta, Ga. *Asst. Professor of Biochemistry.* (**2**, 1948)

Singer, Thomas P., Ph.D. Western Reserve Univ., Cleveland, Ohio. *Asst. Professor of Biochemistry.* (**2**, 1948)

Sizer, Irwin W., Ph.D. Massachusetts Institute of Technology, Cambridge. *Associate Professor of Physiology.* (**1**, 1944)

Skinner, John Taylor, M.S., Ph.D. c/o The Grapette Co., Camden, Arkansas. *Chief Chemist.* (**2**, 1946)

Slaughter, Donald, M.D. Univ. of South Dakota, School of Medical Sciences, Vermillion, S. D. *Dean.* (**3**, 1938)

Slonaker, James R., Ph.D. 334 Kingsley Ave., Palo Alto, Calif. *Professor of Physiology, Leland Stanford Junior University.* (**1**, 1917)

Smadel, Joseph Edwin, M.D. Department of Virus and Rickettsial Diseases, Army Medical Department, Research and Graduate School, Washington 12, D. C. *Scientific Director.* (**4**, 1940; **6**, 1937)

Small, James C., M.D. 101 S. 39th St., Philadelphia, Pa. *Associate in Medicine, Graduate School of Medicine, University of Pennsylvania.* (**4**, 1927)

Smetana, Hans F., M.D. Army Institute of Pathology, 7th St., and Independence Ave., Washington 25, D. C. (**4**, 1934)

Smith, Arthur H., M.S., Ph.D. Wayne University College of Medicine, Detroit 26, Mich. *Professor of Physiological Chemistry.* (**1**, 1923; **2**, 1921; **5**, 1933)

Smith, Austin Edward, M.D., C.M., M.Sc. (Med.). American Medical Association, 535 N. Dearborn St., Chicago, Ill. *Acting Secretary of the Council on Pharmacy and Chemistry, American Medical Association; Research Associate (Instructor), Dept. of Pharmacology, University of Chicago.* (**3**, 1942)

Smith, Clarence A., M.S., Ph.D. Standard Brands, Inc., 595 Madison Ave., New York City. *Technical Director, Agricultural Department.* (**1**, 1921)

Smith, David T. Duke Hospital, Durham, N. C. *Professor of Bacteriology and Associate Professor of Medicine.* (**5**, 1943)

Smith, Dietrich Conrad, A.M., Ph.D. University of Maryland School of Medicine, Lombard and Greene Sts., Baltimore. *Associate Professor of Physiology.* (**1**, 1937)

Smith, Douglas C., M.S., Ph.D. Argonne National Laboratory, P.O. Box 5207, Chicago 80, Ill. (**1**, 1947)

Smith, Edwin L., Ph.D. Univ. of Texas Dental Sch., Houston, Texas. *Professor of Physiology.* (**1**, 1948)

Smith, Elinor Van Dorn, Ph.D. 5 Middle St.,

Hadley, Mass. *Associate Professor of Bacteriology, Smith College.* (**6**, 1940)

Smith, Elizabeth R. B., Ph.D. c/o Dr. Paul K. Smith, 1335 H. St., N.W., Washington 5, D. C. (**2**, 1938)

Smith, Emil L., Ph.D. School of Medicine, Univ. of Utah, Salt Lake City 1, Utah. *Associate Professor of Biochemistry.* (**2**, 1946)

Smith, Erma A., M.A., Ph.D., M.D. College Station, Durham, N. C. (**1**, 1928)

Smith, George H., M.A., Ph.D., M.A.(hon.), Sc.D. School of Medicine, Yale University, New Haven, Conn. *Professor of Immunology and Assistant Dean; Chairman, Department of Bacteriology, Yale University.* (**6**, 1918)

Smith, H. P., M.S., M.D. Columbia Univ., Coll. of Physicians and Surgeons, 630 West 168th St., New York 32, N. Y. *Delafield Professor of Pathology.* (**1**, 1937; **4**, 1925)

Smith, Homer W., M.S. (hon.), Sc.D. 477 First Ave., New York City. *Professor of Physiology, New York University College of Medicine; Member, National Academy of Sciences.* (**1**, 1923; **2**, 1930)

Smith, Janice M., M.S., Ph.D. Department of Home Economics, University of Illinois, Urbana, Ill. *Professor and Chief of Nutrition.* (**5**, 1947)

Smith, John R., A.M., M.D. Washington University School of Medicine, St. Louis 10, Mo. *Assistant Professor of Medicine.* (**1**, 1947)

Smith, Lawrence Weld, M.D. 119 E. 26th St., New York 10, N. Y. (**4**, 1927)

Smith, Lee Irvin, A.M., Ph.D. School of Chemistry, University of Minnesota, Minneapolis. *Professor and Chief, Division of Organic Chemistry.* (**2**, 1942)

Smith, Margaret Cammack, Ph.D. El Encanto Estates, Tucson, Arizona. (**2**, 1935; **5**, 1933)

Smith, Maurice I., M.D. National Institute of Health, Bethesda 14, Md. *Principal Pharmacologist, U. S. Public Health Service.* (**1**, 1920; **3**, 1916)

Smith, Paul K., Ph.D. Department of Pharmacology, George Washington Univ. School of Medicine, 1335 H St., N.W., Washington 5, D. C. *Professor of Pharmacology and Executive Officer of the Department.* (**2**, 1937; **3**, 1937)

Smith, Paul W., M.S., Ph.D. School of Medicine, University of Oklahoma, 801 E. 13th St., Oklahoma City. *Associate Professor of Pharmacology.* (**1**, 1933)

Smith, Philip Edward, M.S., Ph.D. 630 W. 168th St., New York City. *Professor of Anatomy, Columbia University; Member of the National Academy of Sciences.* (**1**, 1923)

Smith, Ralph G., M.D., Ph.D. Tulane University, Station 20, New Orleans, La. *Professor of Pharmacology.* (**3**, 1929)

Smith, R. Blackwell, Jr., B.S., M.S., Ph.D. Medical College of Virginia, Richmond 19, Va. *Lecturer in Pharmacology.* (**3**, 1944)

Smith, Sedgwick E., Ph.D. Dept. Animal Husbandry, Cornell University, Ithaca, N. Y. *Animal Physiologist.* (**5**, 1945)

Smith, Susan Gower, M.A. Duke University, Durham, N. C. *Associate, Department of Medicine and Nutrition, School of Medicine.* (**5**, 1939)

Smith, Wilbur Kenneth, M.D. University of Rochester School of Medicine and Dentistry, 260 Crittenden Blvd., Rochester, N. Y. *Associate Professor of Anatomy.* (**1**, 1939)

Smith, Willie W., M.A., Ph.D. Bethesda, Md. *Associate Physiologist, National Institute of Health.* (**1**, 1941)

Smithburn, Kenneth C., M.D. The Rockefeller Foundation, 49 W. 49th St., New York City. *Staff Member, International Health Division.* (**6**, 1937)

Smolens, Joseph, B.S. Wyeth Research Inst., 900 N. Broad St., Philadelphia, Pa. *Head, Dept. of Immunology.* (**6**, 1943)

Smythe, C. V., M.S., Ph.D. 5000 Richmond St., Philadelphia, Pa. *Head of Biochemistry, Rohm & Haas Company.* (**2**, 1934)

Snape, William J., M.D. Jefferson Med. College of Philadelphia, Philadelphia, Pa. *Assoc. in Physiology.* (**1**, 1948)

Snell, Albert M., M.D. Mayo Clinic, Rochester, Minn. *Head of Section on Medicine at Mayo Clinic; Professor in Medicine, Mayo Foundation Graduate School, University of Minnesota.* (**4**, 1930)

Snell, Esmond E., M.A., Ph.D. University of Wisconsin, Madison 6. *Professor of Biochemistry.* (**2**, 1942; **5**, 1946)

Snyder, Franklin Faust, M.D. Boston Lying-In Hospital, Boston, Mass. (**1**, 1936)

Sobel, Albert E., M.A., Ph.D. Jewish Hospital of Brooklyn, Brooklyn, N. Y. *Head, Dept. of Chemistry; Adjunct Professor of Chemistry, Polytechnic Institute of Brooklyn.* (**2**, 1939)

Sobotka, Harry H., Ph.D. Mount Sinai Hospital, Fifth Ave. and 100th St., New York City. *Head, Department of Chemistry.* (**2**, 1932; **5**, 1933)

Solandt, Donald Young, M.A., M.D., Ph.D. University of Toronto, Toronto, Ont., Canada. *Professor of Physiology in charge of Biophysics, Faculty of Medicine; Professor of Physiological Hygiene and Head of Department, School of Hygiene.* (**1**, 1937)

Soley, Mayo H., M.D. University of California Medical School, The Medical Center, San Francisco. *Associate Professor of Medicine and Assistant Dean.* (**1**, 1943)

Sollmann, Torald, M.D. Sc.D., (hon.), LL.D. 14327 Superior Road, Cleveland, Ohio. *Pro-*

fessor of Pharmacology, Emeritus, Western Reserve Univ. (**1R**, 1902; **2**, 1906; **3**, 1908)

Solotorovsky, Morris, Ph.D. 203 W. 5th St., Plainfield, N. J. *Merck Institute for Therapeutic Research, Rahway, N. J.; Research Associate in Chemotherapy.* (**6**, 1946)

Somogyi, Michael, Ph.D. 216 S. Kingshighway, St. Louis, Mo. *Biochemist, Jewish Hospital of St. Louis.* (**2**, 1927)

Soskin, Samuel, M.D., M.A., Ph.D. Michael Reese Hospital, 29th St. and Ellis Ave., Chicago 16, Ill. *Medical Director and Director of Research Institute, Michael Reese Hospital; Dean, Michael Reese Hospital Postgraduate School; Professorial Lecturer in Physiology, University of Chicago.* (**1**, 1930; **5**, 1933)

Soule, Malcolm H., Sc.D., LL.D., Ph.D. University of Michigan, Ann Arbor. *Professor of Bacteriology, and Chairman of the Department of Bacteriology.* (**4**, 1927; **6**, 1925)

Spain, Will C., M.D., F.A.C.P. 116 E. 53rd St., New York City. *Clinical Professor of Medicine, Post-Graduate Medical School, Columbia University.* (**6**, 1923)

Spealman, C. R., M.A., Ph.D. Dept. of Physiology Univ. of Pennsylvania School of Medicine, Philadelphia, Pa. (**1**, 1940)

Specht, Heinz, Ph.D. National Institute of Health, Rockville Pike, Bethesda, Md. *Associate Research Physiologist.* (**1**, 1941)

Sperry, Roger W., Ph.D. Dept. of Anatomy, University of Chicago, Chicago 37, Ill. (**1**, 1945)

Sperry, Warren M., M.S., Ph.D. 722 W. 168th St., New York City. *Principal Research Biochemist, New York State Psychiatric Institute.* (**2**, 1929; **5**, 1933)

Spiegel, Ernest A., M.D. Temple University School of Medicine, Broad and Ontario Sts., Philadelphia, Pa. *Professor of Experimental Neurology.* (**1**, 1936)

Spiegel-Adolf, Mona, M.D. Temple University School of Medicine, Broad at Ontario Sts., Philadelphia, Pa. *Professor and Head of Department of Colloid Chemistry.* (**2**, 1933)

Spiegelman, Sol, Ph.D. University of Minnesota, Medical School, Dept. of Physiology, Minneapolis 14, Minn. (**1**, 1946)

Spies, Tom D., M.D. Hillman Hospital, Birmingham, Ala. *Director, Nutrition Clinic.* (**3**, 1941; **4**, 1940; **5**, 1938)

Spink, Wesley W., M.D. University of Minnesota Hospital, Minneapolis. *Associate Professor of Medicine, University of Minnesota Medical School.* (**3**, 1940; **4**, 1940; **6**, 1940)

Spohn, Adelaide, M.S., Ph.D. Elizabeth McCormick Memorial Fund, 848 N. Dearborn St., Chicago, Ill. *Nutritionist.* (**5**, 1933)

Spoor, Herbert J., Ph.D. Bristol Myers Co., New York City. *Asst. Director, Med. Div.* (**1**, 1945)

Sproul, Edith E., M.D. Dept. of Pathology, American Univ. of Beirut, Beirut, Lebanon. *Professor of Pathology.* (**4**, 1941)

Sprunt, Douglas H., M.D., M.S. Univ. of Tennessee, Memphis. *Professor of Pathology; Head of Dept. of Pathology and Bacteriology.* (**4**,1934; **6**, 1936)

Stadie, William C., M.D. 821 Maloney Clinic, 36th and Spruce Sts., Philadelphia, Pa. *Professor of Research Medicine, University of Pennsylvania.* (**2**, 1922)

Stainsby, Wendell J. M.D. Geisinger Memorial Hospital, Danville, Pa. *Chief Physician.* (**6**, 1930)

Stanley, Wendell M., M.S., Ph.D., Sc.D., LL.D. University of California, Berkeley, Calif. *Prof. of Biochemistry and Director of Virus Lab.* (**2**, 1936)

Stannard, James Newell, Ph.D. National Institute of Health, U. S. Public Health Service, Bethesda 14 Md. *Senior Pharmacologist.* (**1**, 1938)

Stare, Fredrick J., Ph.D., M.D. 695 Huntington Ave., Boston 15, Mass. *Professor of Nutrition, Harvard University.* (**2**, 1937; **5**, 1942)

Starr, Isaac, B.S., M.D. Hospital of the University of Pennsylvania, Philadelphia. *Hartzell Prof. of Res. Therapeutics.* (**1**, 1929; **3**, 1942)

Stavraky, George W., M.D., C.M., M.Sc. Medical School, University of Western Ontario, London, Ont., Canada. *Associate Professor of Physiology.* (**1**, 1937; **3**, 1944)

Stead, Eugene A., Jr., M.D. Department of Medicine, Duke University, Durham, N. C. (**1**, 1945)

Stearns, Genevieve, Ph.D. College of Medicine, State University of Iowa, Iowa City. *Research Professor of Pediatrics.* (**2**, 1932; **5**, 1937)

Steel, Matthew, Ph.D. Long Island College of Medicine, 350 Henry St., Brooklyn, N. Y. *Professor of Biological Chemistry.* (**2**, 1909)

Steele, J. Murray, M.D. Third (N.Y.U.) Research Division Goldwater Memorial Hosp., Welfare Island, New York City. *Associate Professor of Medicine, New York University; Director 3rd (New York University) Medical Division of Welfare Hospital.* (**1**, 1936)

Steenbock, Harry, M.S., Ph.D., Sc.D. University of Wisconsin, Madison. *Professor of Biochemistry.* (**2**, 1912; **5**, 1933)

Steggerda, F. R., M.A., Ph.D. 416 Natural History Building, University of Illinois, Urbana. *Associate Professor of Physiology.* (**1**, 1934)

Stehle, Raymond Louis, A.M., Ph.D. Faculty of Medicine, McGill University, Montreal, Canada. *Professor of Pharmacology.* (**2**, 1920; **3**, 1922)

Steigmann, Frederick, M.S., M.D. 348 S. Hamlin

Ave., Chicago, Ill. *Associate in Medicine, College of Medicine, University of Illinois; Associate Attending Physician, Cook County Hospital.* (3, 1942)

Steiman, S. E., M.A., Ph.D., M.D. 23 Broad St., Lynn, Mass. *Assistant Physician, Metropolitan State Hospital, Waltham, Mass.* (1, 1939)

Stein, George J., M.S., Ph.D. Army Medical Center, Washington, D. C. *Chief, Research Section, Veterans Division,* Army Medical Department of Research and Graduate School. (6, 1947)

Stein, William Howard, Ph.D. The Rockefeller Institute for Medical Research, 66th and York Ave., New York 21, N. Y. *Associate in Chemistry.* (2, 1946)

Steinbach, H. Burr, M.A., Ph.D. Dept. of Zoology, University of Minnesota, Minneapolis. (1, 1934)

Steinberg, Bernhard, M.D. Toledo Hospital Institute of Medical Research, Toledo, O. *Director of the Toledo Hospital Institute of Medical Research; Director of Clinical and Morbid Pathological Laboratories, The Toledo Hospital; Surgeon, U.S.P.H. (inactive).* (4, 1928; 6, 1946)

Steiner, Paul E., M.D. The University of Chicago, Chicago, Ill. *Professor of Pathology.* (4, 1939)

Steinhardt, Jacinto, A.M., Ph.D. 1548 East-West Highway, Silver Spring, Md. *Director, Operations Evaluation Group, Mass. Institute of Technology.* (2, 1939)

Steinhaus, Arthur H., M.S., Ph.D., M.P.E. 5315 Drexel Ave., Chicago, Ill. *Professor of Physiology, George Williams College, Hyde Park.* (1, 1928)

Stekol, Jakob A., M.A., D.Sc. The Lankenau Hospital Research Institute, Philadelphia 30, Pa. *Associate Member.* (2, 1936)

Stern, Kurt G., Ph.D. Polytechnic Institute, Brooklyn, N. Y. *Adjunct Professor of Biochemistry.* (2, 1938)

Stetten, DeWitt, Jr., M.D., Ph.D. Public Health Res. Inst. of the City of New York, New York City. *Chief, Division of Nutrition and Physiology.* (2, 1944)

Stetten, Marjorie Roloff, Ph.D. Public Health Res. Inst. of the City of New York. New York City. *Associate, Div. of Nutrition and Physiology.* (2, 1947)

Stevens, S. Smith, Ph.D. Emerson Hall, Harvard University, Cambridge, Mass. *Assistant Professor of Psychology.* (1, 1937)

Stewart, Dorothy R., M.S., Ph.D. Rockford College, Rockford, Ill. (1, 1947)

Stewart, Fred W., M.D. Memorial Hospital, 444 E. 68th St., New York City. *Pathologist; Associate Professor of Surgical Pathology, Cornell Medical School; Pathologist, New York State Department of Public Health, Division of Laboratories and Research.* (4, 1928)

Stewart, Harold L., M.D. The National Cancer Institute, Bethesda, Md. *Chief, Pathology Section.* (4, 1936)

Stewart, Winifred Bayard, M.D., M.A. 1930 Spruce St., Philadelphia, Pa. *Professor of Neurology, Woman's Medical College of Pennsylvania.* (1, 1941)

Stickney, J. Clifford, M.S., Ph.D. West Virginia University School of Medicine, Morgantown. *Assistant Professor of Physiology.* (1, 1944)

Stiebeling, Hazel K., M.A., Ph.D. United States Department of Agriculture, Washington, D. C. *Chief, Bureau of Human Nutrition and Home Economics.* (5, 1933)

Stier, Theodore J. B., Ph.D. Indiana University Medical School, Bloomington. *Associate Professor of Physiology.* (1, 1938)

Still, Eugene U., Ph.D. % Strong Cobb & Co., 2654 Lisbon Rd., Cleveland, O. (1, 1929)

Stillman, Ernest G., M.D. 45 E. 75th St., New York City. (6, 1930)

Stimmel, Benjamin F., Ph.D. Rees-Stealy Medical Research Fund, Ltd., 2001 Fourth Avenue, San Diego, Calif. *Research Biochemist.* (2, 1947)

Stock, Aaron H., M.D. School of Medicine, University of Pittsburgh, Pittsburgh, Penn. *Assistant Professor of Bacteriology and Immunology.* (6, 1947)

Stockton, Andrew Benton, M.D. 655 Sutter Street, San Francisco, Calif. (3, 1931)

Stoerk, Herbert C., M.D. Merck Institute for Therapeutic Research, Rahway, N. J. *Head, Department of Cancer Research.* (4, 1948)

Stohlman, Edward F., LL.B. National Institute of Health, Bethesda, Md. *Assoc. Pharmacologist.* (3, 1948)

Stokinger, Herbert B., Ph.D. 250 Meigs Street, Rochester, N. Y. *Assoc. Professor of Pharmacology and Toxicology.* (6, 1947)

Stokstad, E. L. Robert, Ph.D. Lederle Laboratories, Pearl River, N. Y. *Chemist.* (2, 1947; 5, 1942)

Stoland, O. O., M.S., Ph.D. 1845 Learnard Ave., Lawrence, Kan. *Professor of Physiology and Pharmacology, University of Kansas.* (1, 1913)

Stone, William E., Ph.D. Department of Physiology, University of Wisconsin, Madison. *Assistant Professor of Physiology.* (1, 1945)

Stormont, Robert T., Ph.D., M.D. Food and Drug Administration, Washington, D. C. *Medical Director; Professional Lecturer in Pharmacology, Georgetown Univ. Medical School.* (3, 1941)

Storvick, Clara A., M.S., Ph.D. School of Home Economics, Oregon State College, Corvallis,

Ore. *Associate Professor of Foods and Nutrition.* (5, 1947)

Stotz, Elmer H., Ph.D. University of Rochester School of Medicine and Dentistry, Rochester 7, N. Y. *Professor of Chemistry.* (2, 1939)

Stoughton, Roger W., M.S., Ph.D. Mallinckrodt Chemical Works, 3600 N. Second St., St. Louis, Mo. *Research Chemist.* (3, 1939)

Strong, Frank M., M.A., Ph.D. Department of Biochemistry, University of Wisconsin, Madison. *Professor of Biochemistry.* (2, 1941)

Struck, Harold Carl, Ph.D. School of Medicine, The Creighton University, 302 N. 14th St., Omaha 2, Nebr. (1, 1940)

Stuart, Charles A., M.Sc., Ph.D. 372 Lloyd Ave., Providence, R. I. *Associate Professor of Biology, Brown University.* (6, 1935)

Sturgis, Cyrus Cressey, M.D. Simpson Memorial Institute, Ann Arbor, Mich. *Director, Thomas Henry Simpson Memorial Institute for Medical Research; Chairman, Department of Medicine, University Hospital, and Professor of Medicine, University of Michigan.* (4, 1927)

Sturkie, Paul D., Ph.D. Rutgers Univ., New Brunswick, N. J. *Assoc. Res. Specialist in Poultry Husbandry and Assoc. Prof. of Poultry Husbandry.* (1, 1948)

Stutzman, Jacob W., Ph.D., M.D. Boston University School of Medicine, Boston, Mass. *Assoc. Professor of Pharmacology.* (1, 1946; 3, 1948)

Sugg, John Y., Ph.D. Cornell University Medical College, 1300 York Ave., New York City. *Associate Professor of Bacteriology and Immunology.* (6, 1938)

Sulkin, S. Edward, Ph.D. Southwestern Medical Foundation, Dallas, Texas. *Professor and Chairman, Dept. of Bacteriology and Immunology.* (6, 1944)

Sullivan, Michael Xavier, Ph.D. Chemo-Medical Research Institute, Georgetown University, 37th & O Sts., N. W., Washington, D. C. *Director and Research Professor of Chemistry.* (2, 1909)

Sulzberger, Marion B., M.D. 999 5th Ave., New York City. *Associate Clinical Professor of Dermatology and Syphilology, N. Y. Post-Graduate Medical School of Columbia Univ., Assoc. Director, Skin and Cancer Unit of N. Y. Post-Graduate Hospital.* (6, 1936)

Summerson, William H., Ph.D. Medical Division, Army Chemical Center, Md. *Chief, Biochemistry Section.* (2, 1942)

Sumner, J. B., A.M., Ph.D. Cornell University, Ithaca, N. Y. *Director, Enzyme Chemistry Lab.* (2, 1919)

Sunderman, F. William, M.D., Ph.D. Cleveland Clinic Found., Cleveland, Ohio. *Head, Dept. of Clin. Pathology; Professor of Clin. Pathology, Bunts Institute, Cleveland Clinic.* (2, 1931)

Sundstroem, Edward S., M.D. University of California, Berkeley. *Professor of Biochemistry, Emeritus.* (2, 1919)

Sure, Barnett, M.S., Ph.D. University of Arkansas, Fayetteville. *Head of Department and Professor of Agricultural Chemistry.* (2, 1923; 5, 1933)

Sutherland, George F., C.M., M.D., M.Sc. Duke University School of Medicine, Durham, N. C. (1, 1939)

Sutton, T. Scott, M.Sc., Ph.D. Ohio State University, Columbus. *Professor, Ohio State University; Associate, Ohio Agricultural Experiment Station; Director, Institute of Nutrition and Food Technology.* (5, 1936)

Svirbely, Joseph L., Ph.D. Monsanto Chemical Co., Central Research Department, 1601 W. First St., Dayton 7, Ohio. *Pharmacologist.* (3, 1945)

Swain, Robert E., M.S., Ph.D., LL.D. 634 Mirada Ave., Stanford University, Calif. *Professor Emeritus of Chemistry.* (2, 1909)

Swann, Howard G., M.S., Ph.D. Dept. of Physiology, University of Texas Medical School, Galveston. *Assistant Professor of Physiology. Captain, Aero Medical Laboratory, Wright Field, Dayton, O.* (1, 1940)

Swanson, Pearl P., M.S., Ph.D. Iowa State College, Ames. *Professor of Foods and Nutrition, Dept. of Foods and Nutrition.* (5, 1933)

Swanson, William W., M.S., M.D. 2376 E. 71st St., Chicago, Ill. *Assistant Professor of Pediatrics, Northwestern University.* (2, 1938)

Sweeney, H. Morrow, M.S., P.hD. Aero Medical Laboratory, Wright Field, Dayton, Ohio. (1, 1939)

Swift, Homer, M.D., D.Sc. 66th St. and York Ave., New York City. *Member, Rockefeller Institute for Medical Research; Physician to The Hospital of The Rockefeller Institute for Medical Research.* (6, 1920)

Swift, Raymond W., M.S., Ph.D. Pennsylvania State College, State College. *Professor, Department of Animal Nutrition.* (5, 1934)

Swingle, Wilbur Willis, Ph.D. Princeton University, Princeton, N. J. *Professor of Biology.* (1, 1924)

Swinyard, Ewart A., Ph.D. Univ. of Utah, Salt Lake City, Utah. *Professor of Pharmacy, Sch. of Pharmacy; Lecturer in Pharmacology; Sch. of Medicine.* (3, 1948)

Sydenstricker, V. P. University of Georgia School of Medicine, Augusta. *Professor of Medicine.* (5, 1944)

Sykes, Joseph F., M.S.A., Ph.D. U. S. Dept. of Agriculture, Bureau of Dairy Industry, Beltsville, Md. *Physiologist.* (1, 1942)

Syverton, Jerome T., M.D. University of Minnesota, Minneapolis, Minn. *Professor and Head,*

Dept. of Bacteriology and Immunology. (**4,** 1940; **6,** 1947)

Szego, Clara M., M.S., Ph.D. University of California, Medical School, Los Angeles. *Assistant Clinical Professor of Biophysics.* (**1,** 1946)

Szepsenwol, Josel, M.D. Emory Univ. Sch. of Med., Emory University, Ga. *Asst. Professor of Anatomy.* (**1,** 1948)

Tabor, Herbert, M.D. Division of Physiology, National Institutes of Health, Bethesda 14, Md. *Senior Assistant Surgeon, USPHS.* (**3,** 1947)

Tager, Morris. Western Reserve Univ., Cleveland, Ohio. *Dept. of Microbiology.* (**6,** 1948)

Tainter, M. L., M.A., M.D. Sterling-Winthrop Research Institute, 33 Riverside Ave., Rensselaer, N. Y. *Director.* (**1,** 1929; **3,** 1927)

Talbot, Samuel Armstrong, A.M., M.S., Ph.D. Wilmer Institute, Johns Hopkins Hospital, Baltimore, Md. *Instructor in Physiological Optics, Johns Hopkins University.* (**1,** 1940)

Taliaferro, William H., Ph.D. Department of Bacteriology, University of Chicago, Chicago, Ill. *Eliakim H. Moore Distinguished Service Professor of Parasitology and Dean of the Division of Biological Sciences.* (**6,** 1930)

Tannenbaum, Albert, M.D. Michael Reese Hospital, 29th St. & Ellis Ave., Chicago, Ill. *Director, Department of Cancer Research.* (**4,** 1942)

Tarver, Harold, M.S., Ph.D. Division of Biochemistry, University of California, Berkeley, Calif. *Assistant Professor of Biochemistry.* (**2,** 1947)

Tashiro, Shiro, Ph.D., M.D. College of Medicine, University of Cincinnati, Cincinnati, O. *Professor of Biochemistry.* (**1,** 1913; **2,** 1913)

Tatum, Arthur L., M.S., Ph.D., M.D. Service Memorial Institute, University of Wisconsin, Madison. *Professor of Pharmacology.* (**1,** 1913; **3,** 1919)

Tatum, Edward L., M.S., Ph.D. School of Biological Sciences, Stanford University, Stanford University, Calif. *Professor of Biology.* (**2,** 1947)

Tauber, Henry, Ph.D. V. D. Research Laboratory, U. S. Marine Hospital, Staten Island, N. Y. *Biochemist, U. S. Public Health Service.* (**2,** 1933)

Taylor, A. N., Ph.D. Univ. of Oklahoma Sch. of Med., Oklahoma City, Okla. *Asst. Professor and Chairman, Dept. of Physiology.* (**1,** 1948)

Taylor, Alonzo E., M.D. General Mills, Inc. 400 2nd Ave. S., Minneapolis, Minn. *Director of Research. Director Emeritus, Food Research Institute, Stanford University.* (**5,** 1933)

Taylor, Alton R., Ph.D. Parke, Davis Co., Detroit 32, Mich. *Senior Research, Research Division.* (**2,** 1947; **6,** 1943)

Taylor, Craig L., M.A., Ph.D. Dept. of Engineering, Univ. of Calif., Los Angeles, Calif. *Associate Professor of Engineering.* (**1,** 1945)

Taylor, Fred A., Ph.D. 320 E. North Ave., N.S., Pittsburgh, Pa. *Biochemist, Singer Memorial Laboratory.* (**2,** 1933)

Taylor, Haywood M., M.S., Ph.D. Duke University School of Medicine, Durham, N. C. *Associate Professor of Biochemistry and Toxicology; Biochemist and Toxicologist to Duke Hospital.* (**4,** 1942)

Taylor, Henry Longstreet, Ph.D. University of Minnesota, School of Public Health, Minneapolis. *Assistant Professor of Physiological Hygiene.* (**1,** 1944)

Taylor, John Fuller, Ph.D. Washington University School of Medicine, Euclid and Kingshighway, St. Louis, Mo. *Assistant Professor of Biological Chemistry.* (**2,** 1944)

Taylor, M. Wight. New Jersey Agricultural Exper. Station, New Brunswick. *Assoc. Biochem. in Nutr., and Assoc. Prof. of Agr. Biochem., Rutgers Univ.* (**5,** 1944)

Taylor, Norman Burke, M.D., F.R.S. (Can.), M.R.C.S. (Eng.), L.R.C.P. (Lon.), F.R.C.S. (Edin.), F.R.C.P. (Can.). University of Toronto, 5, Ontario, Ont., Canada. *Professor of Physiology.* (**1,** 1922)

Taylor, Robert D., M.D. Clinical Research Division, Cleveland Foundation, Cleveland 6, O. *Member.* (**1,** 1945)

Teague, Robert S., Ph.D., M.D. Dept. of Pharmacology and Physiology, Medical College of Alabama, Birmingham 5, Ala. *Associate Professor of Physiology and Pharmacology.* (**3,** 1942)

Templeton, Roy D., B.S. 5630 South Flores, San Antonio, Texas. (**1,** 1935)

Ten Broeck, Carl, M.D. The Rockefeller Institute for Medical Research, Department of Animal and Plant Pathology, Princeton, N. J. *Director of Dept. of Animal and Plant Pathology.* (**4,** 1932; **6,** 1924)

Tepperman, Jay, M.D. Dept. of Pharmacology, Syracuse University School of Medicine, Syracuse, N. Y. *Associate Professor of Pharmacology.* (**1,** 1944)

Terplan, Kornel L., M.D. University of Buffalo, School of Medicine, Buffalo, N. Y. *Professor of Pathology.* (**4,** 1935)

Thannhauser, S. J., M.D., Ph.D. Pratt Diagnostic Hospital, 30 Bennet St., Boston, Mass. *Professor of Clinical Medicine, Tufts Medical School; Associate Chief, Pratt Diagnostic Hospital.* (**2,** 1937)

Thayer, Sidney Allen, Ph.D. 1402 S. Grand Blvd., St. Louis 4, Mo. *Associate Professor of Biochemistry, St. Louis University School of Medicine.* (**2,** 1933)

Thienes, Clinton H., A.M., M.D., Ph.D. University of Southern California School of Medi-

cine, Los Angeles. *Professor of Pharmacology.* (3, 1928)

Thomas, Arthur W., Ph.D. Columbia University, New York City. *Professor of Chemistry.* (2, 1924)

Thomas, Byron H., M.S., Ph.D. Iowa State College, Ames. *Professor and Head, Animal Chemistry and Nutrition, Iowa Agricultural Experiment Station.* (5, 1933)

Thomas, Caroline Bedell, M.D. The Johns Hopkins Hospital, Baltimore, Md. *Associate Professor of Medicine, Johns Hopkins University School of Medicine.* (1, 1939)

Thomas, J. Earl, M.S., M.D. Jefferson Medical College, Philadelphia, Pa. *Professor of Physiology.* (1, 1922; 3, 1924)

Thompson, Marvin R., Ph.C., B.Sc., M.Ph., (Hon.) Ph.D. 67 Greenwich Ave., Stamford, Conn. (3, 1944)

Thompson, Randall L., Sc.D., M.D. Indiana University, Medical Center, Indianapolis 7, Ind. *Professor of Bacteriology.* (6, 1937)

Thompson, William R., Ph.D. 1 Darrock Rd., Delmar, N. Y. *Senior Biochemist, Division of Laboratories and Research, New York State Department of Health.* (2 1934)

Thomson, David Landsborough, M.A., Ph.D., F.R.S.C. McGill University, Montreal, Canada. *Professor of Biochemistry and Dean of the Faculty of Graduate Studies and Research.* (2, 1929)

Thorn, George Widmer, M.D. Peter Bent Brigham Hospital, Boston, Mass. *Professor of Medicine of Harvard University.* (1, 1939)

Thorp, W. T. S. D.V.M. National Institutes of Health, Bethesda, Md. *Veterinary Pathologist.* (4, 1948)

Tidwell, Herbert C., Ph.D. Southwestern Medical College, Dallas, Texas. *Professor of Biochemistry and Chairman of the Dept.* (2, 1948)

Tillett, William S., M.D., Sc.D. (hon.). Department of Bacteriology, New York University College of Medicine, 477 First Ave., New York City. *Professor of Medicine.* (6, 1927)

Tilt, Jennie, M.S., Ph.D. Florida State University, Tallahassee. *Professor of Physiological Chemistry and Nutrition.* (5, 1937)

Tipson, R. Stuart, Ph.D., D.Sc. Mellon Institute of Industrial Research, University of Pittsburgh, Pittsburgh, Pa. *Senior Fellow, Department of Research in Pure Chemistry.* (2, 1937)

Tipton, Samuel R., Ph.D. Department of Zoology, University of Tennessee, Knoxville. *Professor of Zoology.* (1, 1940)

Tisdall, Frederick F., M.D., F.R.C.P. (London), F.R.C.P. (C.). Hospital for Sick Children, 55 College St., Toronto, Canada. *Associate Professor of Pediatrics, Dept. of Medicine, University of Toronto.* (2, 1922; 5, 1933)

Tislow, Richard, M.D. Schering Corporation, Bloomfield, N. J. *Director of Biological Laboratories.* (1 1944)

Titus, Harry W., A.M., Ph.D. Lime Crest Research Lab., RFD #1, Newton, N. J. *Technical Counsellor and Director of Nutritional Research.* (2, 1929; 5, 1933)

Tobias, Julian M., M.D. University of Chicago, Chicago, Ill. *Instructor in Physiology.* (1, 1944)

Tocantins, Leandro Maués, M.D. Jefferson Medical College, Philadelphia, Pa. *Associate Professor of Medicine.* (1, 1939)

Todd, Wilbert R., Ph.D. Univ. of Oregon Medical School, Portland, Ore. *Assoc. Professor of Biochemistry.* (2, 5, 1948)

Todhunter, Elizabeth Neige, M.Sc., Ph.D., University of Alabama, University. *Professor of Nutrition.* (5, 1939)

Toennies, Gerrit, Ph.D. Lankenau Hospital, Philadelphia 30, Pa. *Senior Member, Institute for Cancer Research.* (2, 1934)

Tolle, Chester D., Ph.D. Food and Drug Administration, Federal Security Agency, Washington, D. C. *Senior Biochemist.* (5, 1942)

Toman, James E. P., Ph.D. Dept. of Pharmacology and Physiology, Univ. of Utah School of Medicine, Salt Lake City. (1, 1945)

Tomlinson, Wray Joseph, M.D. Fort Logan Veteran's Hospital, Denver, Colorado. *Chief of Labs., Assist. Prof. of Pathology, Univ. of Colorado School of Medicine.* (4, 1945)

Tompkins, Edna H., M.D. Laboratory of Applied Physiology, Yale University, 52 Hillhouse Ave., New Haven, Conn. *Research Associate; Associate Professor.* (4, 1941)

Torda, Clara, Ph.D., M.D. Cornell Univ. Medical College, New York City. *Research Fellow in Pharmacology.* (1, 1943; 3, 1944)

Toth, Louis A., M.S., Ph.D. Dept. of Physiology, Louisiana State University School of Medicine, New Orleans 13, La. *Associate Professor of Physiology.* (1, 1940)

Totter, John R., M.A., Ph.D. Univ. of Arkansas School of Medicine, Little Rock, Ark. *Associate Professor, Dept. of Physiological Chemistry.* (2, 1946)

Tourtellotte, Dee, M.S., D.Sc. Charles B. Knox Gelatin Co., 4th and Erie Sts., Camden, N. J. *Head, Nutrition Laboratory.* (5, 1935)

Tower, Sarah Sheldon, M.D., Ph.D. Johns Hopkins University, Baltimore, Md. *Instructor in Psychiatry.* (1, 1932)

Trager, William, M.D. The Rockefeller Institute for Medical Research. Department of Animal and Plant Pathology, Princeton, N. J. *Associate.* (4, 1947)

Traub, Frederick B., M.D. 205 East 82nd St., New York 28, N. Y. *Associate Bacteriologist, Jewish Hospital of Brooklyn.* (6, 1946)

Travell, Janet, M.D. Cornell University Medical College, New York City. *Assistant Professor of Clinical Pharmacology.* (**3,** 1933)

Travis, Lee Edward, A.M., Ph.D. University of Southern California, Los Angeles. *Professor of Psychology and Director of the Psychological Center; Major, YAAF (Yuma, Ariz.).* (**1,** 1929)

Treadwell, Carleton R., M.S., Ph.D. Dept. of Biochemistry, George Washington University School of Medicine, 1335 H St., N.W., Washington, D. C. *Associate Professor of Biochemistry.* (**2,** 1944)

Treffers, Henry P., Ph.D. Yale Medical School, Department of Immunology, New Haven, Conn. *Associate Professor of Immuno-chemistry.* (**6,** 1942)

Trimble, Harry C., M.S., Ph.D., M.D. 25 Shattuck St., Boston, Mass. *Assistant Professor of Biological Chemistry, Harvard Medical School.* (**2,** 1929; **5,** 1936)

Tuft, Louis H., M.D. 1530 Locust St., Philadelphia, Pa. *Assistant Professor of Medicine, Temple University Medical School; Chief of Clinic of Allergy and Applied Immunology, Temple University Hospital.* (**6,** 1928)

tum Suden, Caroline, M.A., Ph.D. Department of Physiology, Mount Holyoke College, South Hadley, Mass. (**1,** 1936)

Tunturi, Archie Robert, M.S., Ph.D. Univ. of Oregon Medical School, Portland, Ore. *Assistant Professor of Anatomy.* (**1,** 1946)

Tuohy, Edward B., M.S., M.D. Georgetown University Hospital, Washington, D. C. *Professor of Anesthesiology.* (**3,** 1941)

Turner, Abby H., Ph.D. Mount Holyoke College, South Hadley, Mass. *Professor of Physiology.* (**1,** 1928)

Tuttle, Waid Wright, M.A., Ph.D. State University of Iowa, Iowa City. *Professor of Physiology.* (**1,** 1925)

Tweedy, Wilbur R., Ph.D. Veterans Administration Hospital, Radioisotope Unit, Hines, Ill. *Director.* (**2,** 1931)

Tyler, Albert, Ph.D. California Institute of Technology, Pasadena, Calif. *Assoc. Professor of Embryology.* (**6,** 1946)

Tyler, David B., Ph.D. Department of Embryology, Carnegie Institution of Washington, Wolfe and Madison Sts., Baltimore 5, Md. *Member of Staff.* (**1,** 1943)

Umbreit, Wayne W., M.Sc., Ph.D. Merck Institute for Therapeutic Research, Rahway, N. J. *Head, Dept. of Enzyme Chemistry.* (**2,** 1947)

Unna, Klaus R. W., M.D. 1853 W. Polk St., Chicago 12, Ill. *Assistant Professor, Dept. of Pharmacology, Univ. of Illinois Coll. of Medicine.* (**1,** 1941; **3,** 1944; **5,** 1942)

Upton, Morgan, M.A., Ph.D. Dept. of Psychology, Rutgers University, New Brunswick, N. J. (**1,** 1934)

Urban, Frank, Ph.D., M.D. 302 Northern Building, Green Bay, Wis. (**2,** 1932)

Utter, Merton F., Ph.D. Dept. of Biochemistry, Western Reserve Univ., Cleveland, Ohio, *Associate Professor of Physiological Chemistry* (**2,** 1946)

Vahlteich, Ella McCollum, M.A., Ph.D. 310 Walnut St., Engelwood, N. J. (**5,** 1933)

Valle, J. R., M.D. Escola Paulista de Medicina, Caixa Postal 144-A, Sao Paulo, Brazil. *Professor of Pharmacology, Escola Paulista de Medicina,* Sao Paulo, Brazil. (**3,** 1947)

Vanderscheer, James, Ch.E. 136 Linwood Ave., Ridgewood, N. J. *Research Chemist, Lederle Labs.* (**6,** 1946)

Van Dyke, H. B., Ph.D., M.D. 630 W. 168th St., New York, N. Y. *Hosack Professor of Pharmacology, Columbia University, College of Physicians and Surgeons.* (**1,** 1925; **3,** 1927)

van Harreveld, Anthonie, M.A., M.D. California Institute of Technology, Pasadena. *Associate Professor of Physiology.* (**1,** 1941)

Van Liere, Edward J., M.S., M.D., Ph.D. The School of Medicine, West Virginia University, Morgantown. *Professor of Physiology and Dean.* (**1,** 1927)

Van Middlesworth, Lester, Ph.D. Univ. of Tennessee, Memphis, Tenn. *Instr. in Physiology.* (**1,** 1948)

Van Slyke, Donald D., Ph.D., Sc.D., M.D. Rockefeller Institute for Medical Research, 66th St. and York Ave., New York City. *Emeritus Member; Member, National Academy of Sciences.* (**2,** 1908)

van Wagenen, Gertrude, Ph.D. Yale University School of Medicine, New Haven, Conn. *Associcte Professor.* (**1,** 1932)

van Wagtendonk, Willem J., Ph.D. Dept. of Zoology, Indiana University, Bloomington, Ind. *Associate Professor of Zoology.* (**2,** 1946)

Van Winkle, Walton, Jr., M.D. American Medical Assn., 535 N. Dearborn St., Chicago 10, Ill. (**3,** 1939)

Varney, Philip L. Washington Univ. Sch. of Med., St. Louis, Mo. *Asst. Professor of Bacteriology.* (**6,** 1948)

Vars, Harry M., Ph.D. Harrison Department of Surgical Research, University of Pennsylvania Medical School, Philadelphia. *Assistant Professor of Physiological Chemistry.* (**2,** 1935; **5,** 1935)

Velick, Sidney Frederick. Dept. of Biochemistry, Washington Univ. School of Medicine, Euclid Ave. and Kingshighway, St. Louis 10, Mo. *Assistant Professor of Biochemistry.* (**2,** 1946)

Vennesland, Birgit, Ph.D. Dept. of Biochemistry,

University of Chicago, Chicago, Ill. *Assistant Professor.* (2, 1944)

Venning, Eleanor H., M.S., Ph.D. University Clinic, Royal Victoria Hospital, Pine Ave., Montreal, Quebec, Canada. *Assistant Professor of Medicine, McGill Univ.* (2, 1938)

Vestling, Carl Swensson, Ph.D. Noyes Lab., Univ. of Illinois, Urbana, Ill. *Assistant Professor of Biochemistry.* (2, 1946)

Vickery, Hubert B., Ph.D., Sc.D. (hon.) Connecticut Agricultural Experiment Station, New Haven. *Lecturer in Physiological Chemistry, Yale University; Biochemist in Charge, Department of Biochemistry, Connecticut Agricultural Experiment Station; Member, National Academy of Sciences.* (2, 1923)

Victor, Joseph, M.D. Camp Detrick, Frederick, Md. *Chief, Pathology Branch.* (4, 1935)

Villee, Claude A., Jr., Ph.D. Harvard Medical School, Boston, Mass. *Assoc. in Biological Chemistry.* (2, 1948)

Virtue, Robert W., Ph.D., M.D. 2134 E. Iliff Ave., Denver 10, Colo. *Resident in Anesthesia, University of Iowa.* (2, 1939)

Visscher, Frank E., M.S., Ph.D. Upjohn Co., Kalamazoo 99, Mich. *Research Scientist, Department of Pharmacology and Endocrinology.* (1, 1947)

Visscher, Maurice B., Ph.D., M.D. University of Minnesota, Minneapolis. *Professor and Head of Dept. of Physiology.* (1, 1927)

Voegtlin, Carl, Ph.D. Sc.D. Dorset, Vt. (1R, 1908; 2, 1908; 3, 1908)

von Haam, Emmerich, M.D. Ohio State University, Columbus. *Professor of Pathology.* (4, 1938)

Von Oettingen, W. F., M.D., Ph.D. National Institutes of Health, Industrial Hygiene Research Lab., Bethesda, Md. *Principal Industrial Toxicologist.* (3, 1925)

Vorwald, Arthur J., Ph.D., M.D. Saranac Lake, N. Y. *Director of Research, The Edward L. Tradeau Foundation and Director of the Saranac Laboratory.* (4, 1937)

Vos, Bert J., Ph.D., M.D. Division of Pharmacology, Food and Drug Administration, Washington, D. C. *Associate Pharmacologist.* (3, 1941)

Wachstein, Max, M.D. St. Catherine's Hospital, Middleton, N. Y. *Director of the Laboratory. Research Assistant.* (4, 1947)

Waddell, James, Ph.D. E. I. duPont de Nemours & Co., New Brunswick, N. J. *Director of the Biological Laboratory.* (2, 1930; 5, 1935)

Wadsworth, Augustus B., M.D. Manchester, Vermont (4, 1935; 6, 1920)

Waelsch, Heinrich, M.D., Ph.D. 722 West 168th St., New York 32, N. Y. *Associate Research Biochemist, N. Y. State Psychiatric Institute and Hospital; Assistant Professor of Biological Chemistry, Columbia University.* (2, 1941)

Wagman, Irving H., M.A., Ph.D. Dept. of Physiology, Jefferson Medical College, Philadelphia 7, Pa. *Associate in Physiology.* (1, 1946)

Waisman, Harry A., M.D., Ph.D. University of Illinois Research and Educational Hospital, Chicago, Ill. *Resident Fellow in Pediatrics.* (2, 1944)

Wakeman, Alfred J., Ph.D. Hatfield Hill Road, Bethany, Conn. *Retired.* (2, 1906)

Wakerlin, George E., Ph.D., M.D. University of Illinois Medical School, 1853 W. Polk St., Chicago. *Professor of Physiology.* (1, 1933; 3, 1934)

Wakim, Khalil G., M.D., Ph.D. Mayo Clinic, Rochester, Minn. *Consultant, Mayo Clinic and Professor of Physiology, Mayo Foundation.* (1, 1942)

Walcott, William W., Ph.D. Department of Physiology, College of Physicians and Surgeons, Columbia University, New York 32, N. Y. *Instructor.* (1, 1947)

Wald, George, M.A., Ph.D. Biological Laboratories, Harvard University, Cambridge, Mass. (1, 1934)

Walker, Arthur M., M.D. Veterans Administration Medicine & Surgery, Washington, D. C. (1, 1932; 3, 1939)

Walker, Burnham S., Ph.D., M.D. Boston University School of Medicine, 80 E. Concord St., Boston, Mass. *Professor of Biochemistry.* (2, 1940)

Walker, Harry A., Ph.D. Emory Univ. School of Medicine, Emory University, Ga. *Asst. Professor of Pharmacology.* (3, 1948)

Walker, Sheppard M., M.A., Ph.D. Washington University School of Medicine, St. Louis, Mo. *Assistant Professor of Physiology.* (1, 1946)

Wallen-Lawrence, Zonja, Ph.D. 4534 W. Pine Blvd., St. Louis, Mo. (2, 1937)

Walter, Annabel W. 29 Perry St., New York 14, N. Y. *Bacteriologist, New York City Dept. of Health, Bureau of Labs.* (6, 1946)

Walter, Carl W., M.D. Harvard Medical School, 25 Shattuck Street, Boston, Mass. *Director, Laboratory for Surgical Research; Assistant Professor of Surgery, Harvard Medical School; Senior Associate in Surgery, Peter Bent Brigham Hospital.* (4, 1942)

Walters, Orville S., Ph.D., M.D. McPherson, Kan. *Physician.* (1, 1936)

Walton, Robert P., M.A., Ph.D., M.D. Medical College of the State of South Carolina, Charleston. *Professor of Pharmacology.* (3, 1933)

Walton, Seth T., V.M.D., M.S., Ph.D. Laboratory, Veteran's Hospital, Oteen, N. C. *Director of Laboratories and Research.* (6, 1936)

Walzer, Matthew, M.D. 20 Plaza St., Brooklyn,

N. Y. *Attending in Allergy, Jewish Hospital of Brooklyn.* (6, 1924)

Wang, Chi Che, M.S., Ph.D. U. S. Veterans Administration Hospital, Hines, Ill. *In charge of Biochemical Research.* (2, 1922; 5, 1933)

Wang, Shih-Chun, M.D., Ph.D. Columbia University College of Physicians and Surgeons, 630 W. 168th St., New York City. *Assistant Professor in the Department of Physiology.* (1, 1943)

Wangeman, Clayton P., B.A., M.D. Broadway Medical Center, Associated Anesthesiologists, Seattle, Washington. (3, 1946)

Wangensteen, Owen Harding, M.D. University Hospital, Minneapolis 14, Minn. *Professor of Surgery, University of Minnesota* (1, 1947; 4, 1931)

Ward, Walter E., Ph.D., M.D. Cutter Laboratories, Fourth and Parker Streets, Berkeley 1, Calif. *Associate Medical Director.* (6, 1947)

Warner, Emory D., M.D. Medical Laboratories Bldg., Iowa City, Ia. *Professor of Pathology.* (4, 1937)

Warner, Robert C., Ph.D. New York University College of Medicine, 477 First Ave., New York 16, N. Y. *Assistant Professor of Chemistry.* (2, 1946)

Warren, Charles O., Ph.D., M.D. The Commonwealth Fund, 41 E. 57th St., New York 22, N. Y. (1, 1941)

Warren, James V., M.D. Emory University School of Medicine, Atlanta, Ga. *Professor of Physiology; Associate Professor of Medicine.* (1, 1947)

Warren, Madeleine Field, A.M., Ph.D. 9 High Rock St., Needham, Mass. Harvard School of Public Health, 55 Shattuck St., Boston, Mass. *Associate in Physiology.* (1, 1933)

Warren, Marshall R., Ph.D., M.D. Univ. of Tennessee, College of Medicine, Memphis, Tenn. *Asst. Professor of Pharmacology.* (3, 1948)

Warren, Shields, M.D. 195 Pilgrim Rd., Boston, Mass. *Pathologist, New England Deaconess Hospital; Assistant Professor of Pathology, Harvard Medical School.* (4, 1929)

Wartman, William Beckman, M.D. Northwestern Univ., 303 East Chicago Ave., Chicago 11, Ill. *Morrison Professor of Pathology and Chairman of Dept.* (4, 1940)

Wasteneys, Hardolph, Ph.D., F.R.S.C. University of Toronto, Toronto, Canada. *Professor and Head of Department of Biochemistry.* (2, 1915)

Waterman, Robert E., B.S. Schering Corporation, 86 Orange St., Bloomfield, N. J. *Vice-President.* (2, 1940)

Waters, Ralph Milton, M.D. 1300 University Ave., Madison, Wis. *Professor of Anesthesia, University of Wisconsin.* (3, 1937)

Watson, Cecil J., M.D., Ph.D. Department of Medicine, University Hospital, Minneapolis, Minn. *Professor and Head of Department of Medicine.* (4, 1941)

Watson, John B., A.M., Ph.D., LL.D. Box 526, Westport, Conn. (1, 1907)

Waud, Russell A., M.D., M Sc., Ph.D. Medical School, University of Western Ontario, London, Ontario, Canada. *Professor of Pharmacology.* (1, 1925; 3, 1931)

Waugh, David F., Ph.D. Department of Biology and Biological Engineering, Massachusetts Institute of Technology, Cambridge. *Assistant Professor of Physical Biology.* (1, 1943)

Way, E. Leong, M.S., Ph.D. George Washington University School of Medicine, Washington, D. C. *Assistant Professor of Pharmacology.* (3, 1947)

Wearn, Joseph T., M.D. Lakeside Hospital, Cleveland, O. *Professor of Medicine, Western Reserve University; Director of Medicine, Lakeside Hospital.* (1, 1921)

Weatherby, J. H., M.A., Ph.D. Dept. of Physiology and Pharmacology, Medical College of Virginia, Richmond, Va. *Associate Professor of Pharmacology.* (3, 1941)

Weber, C. J., M.D., Ph.D. Veterans Administration Hospital, Wadsworth, Kan. *Chief, Lab. Service.* (2, 1931)

Webster, Bruce, M.D., C.M. Cornell University Medical College, 1300 York Ave., New York City. *Assistant Professor Medicine; Associate Attending Physician, New York Hospital.* (5 1935)

Weed, Lewis H., A.M., M.D., Sc.D. National Research Council, 2101 Constitution Ave., Washington, D. C. (1, 1919)

Wégria, René, M.D. Department of Medicine, Presbyterian Hospital, 622 W. 168th St., New York City. *Instructor in Medicine.* (1, 1941)

Weichert, Charles K., Ph.D. University of Cincinnati, Cincinnati, O. *Professor of Zoology.* (1, 1935)

Weil, Alfred J., M.D. The Bronx Hospital, New York City. Director, *Dept. of Bacteriology.* (6, 1940)

Weil, Arthur, M.D. 952 5th Ave., New York, N. Y. (4, 1940)

Weil, Leopold, Ph.D. Eastern Regional Research Laboratory, U. S. Department of Agriculture, Chestnut Hill Station, Philadelphia, Pa. *Chemist.* (2, 1942)

Weinhouse, Sidney, Ph.D. Research Institute of Temple University, Philadelphia, Pa. *Research Asso.* (2, 1948)

Weir, Everett G., M.S., Ph.D. School of Medicine, Howard University, Washington, D. C. *Assistant Professor of Physiology.* (1, 1941)

Weiser, Russell S., Ph.D. Univ. of Washington Sch. of Med., St. Louis, Mo. *Assoc. Professor of Immunology.* (6, 1948)

Weiss, Charles, M.S., Ph.D., M.D. Jewish Hospi-

tal, York & Tabor Roads, Philadelphia, Pa. *Director of Laboratories.* (4, 1934; 6, 1920)

Weiss, Emil, M.D., Ph.D. 5036 Bernard St., Chicago, Ill. *Pathologist, People's Hospital.* (6, 1927)

Weiss, Paul, Ph.D. University of Chicago, Chicago, Ill. *Professor of Zoology.* (1, 1936)

Welch, Arnold D., Ph.D., M.D. Western Reserve University School of Medicine, Cleveland, O. *Professor of Pharmacology.* (3, 1942; 5, 1944)

Welch, Henry, M.S., Ph.D. Rm. 6171 S. Agriculture Bldg., Washington, D. C. *Chief, Division of Penicillin Control and Immunology, U. S. Food and Drug Administration.* (6, 1932)

Weld, Charles Beecher, M.A., M.D. Dalhousie University, Halifax, N.S., Canada. *Professor of Physiology.* (1, 1936)

Weld, Mrs. Julia T. College of Physicians and Surgeons, 630 W. 168th St., New York City *Research Associate in Pathology.* (6, 1920)

Welker, William H., Ph.D., D.Sc. 1853 W. Polk St., Chicago, Ill. *Professor Emeritus of Biological Chemistry, College of Medicine, University of Illinois.* (2, 1906)

Weller, Carl Vernon, M.D. 1130 Fair Oaks Parkway, Ann Arbor, Mich. *Professor of Pathology and Chairman, Department of Pathology, University of Michigan.* (4, 1923)

Wells, Herbert S., M.D. University of Minnesota. Minneapolis 14. *Professor of Clinical Physiology.* (1, 1932)

Wells, Joseph Albert, M.S., Ph.D. Northwestern University Medical School, Chicago, Ill. *Associate in Pharmacology.* (3, 1944)

Welsh, John H., Ph.D. Biological Laboratories, Harvard University, 16 Divinity Ave., Cambridge 38, Mass. *Associate Professor of Zoology.* (1, 1945)

Wendel, William B., Ph.D. Tulane University School of Medicine, New Orleans, La. *Professor of Biochemistry and Head of Dept.* (2, 1932)

Werber, Erna A., Ph.D. 44 W. 83rd St., New York City. *Director, Research Lab., Jewish Hospital of Brooklyn.* (6, 1948)

Werkman, C. H., Ph.D., D.Sc. Science Hall, Iowa State College, Ames. *Professor and Head of Department of Bacteriology.* (2, 1942)

Werle, Jacob M., M.D., Capt., 138 Evacuation Hospital, A.P.O. 408, New York, N. Y. *Neurosurgeon.* (1, 1943)

Werner, Harold W., Ph.D. The Wm. S. Merrell Co., Lockland Station, Cincinnati, O. *Director of Pharmacology Research.* (3, 1942)

Wertenberger, Grace E., S.M., Ph.D. Women's Medical College of Pennsylvania, Philadelphia. *Assistant Professor of Physiology.* (1, 1943)

Werthessen, Nicholas T., Ph.D. Shrewsbury, Mass. Worcester Foundation for Experimental Biology. *Senior Fellow.* (1, 1946)

Wesson, Laurence Goddard, Ph.D. Forsyth Dental Infirmary, Boston, Mass. *Research Biochemist.* (2, 1929; 3, 1932)

West, Edward S., M.S., Ph.D. University of Oregon Medical School, Portland. *Professor of Biochemistry.* (2, 1925)

West, Harold D., M.S., Ph.D. Meharry Medical College, Nashville 8, Tenn. *Professor of Biochemistry and Head of Dept. of Biochemistry.* (2, 1946)

West, Randolph, M.D. Columbia Univ. College of Physicians and Surgeons, New York City. *Professor of Medicine.* (2, 1931)

Westerfeld, Wilfred Wiedey, Ph.D. Syracuse University College of Medicine, Syracuse 10, N. Y. *Professor of Biochemistry* (2, 1944)

Weston, Raymond E., M.D., Ph.D. Medical Division, Montefiore Hospital, New York 67, N. Y. *Assistant in Medicine.* (1, 1947)

Weymouth, Frank W., Ph.D. Stanford University, Calif. *Professor of Physiology and Executive of the Department.* (1, 1917)

Wheeler, George W., M.D. New York Hospital, 235 E. 73rd St., New York City. *Assistant Director.* (6, 1920)

Wheeler, Mary W., M.A. Division of Laboratories and Research, New York State Department of Health, Albany. *Associate Bacteriologist.* (6, 1933)

Wheelon, Homer, M.S., M.D. University of Washington, Seattle, Wash. *Prof. of Medicine.* (1, 1919)

Whipple, George H., M.D., Sc.D. University of Rochester, Rochester, N. Y. *Professor of Pathology and Dean of the School of Medicine and Dentistry; Member of the National Academy of Sciences.* (1, 1911; 4, 1913)

White, Abraham, M.A., Ph.D. 333 Cedar St., New Haven, Conn. *Associate Professor of Physiological Chemistry, Yale University School of Medicine.* (2, 1934; 5, 1937)

White, Florence R., M.A., Ph.D. National Cancer Institute, Bethesda 14, Md. *Biochemist, National Institute of Health.* (2, 1946)

White, Frank D., Ph.D., F.R.I.C. University of Manitoba, Faculty of Medicine, Winnipeg, Canada. *Professor of Biochemistry.* (2, 1931)

White, Harvey Lester, M.D. Washington University, Medical School, St. Louis 10, Mo. *Professor of Physiology.* (1, 1923)

White, Julius, A.M., Ph.D. National Cancer Institute, Bethesda, Md. *Head Chemist.* (2, 1937)

White, Paul Dudley, M.D., Massachusetts General Hospital, Boston. *Lecturer in Medicine, Harvard Medical School; Physician (in charge of Cardiac Clinics and Laboratory), Mass. General Hospital.* (3, 1921)

Whitehead, Richard W., M.A., M.D. University of Colorado School of Medicine, 4200 E. Ninth

Ave., Denver. *Professor of Physiology and Pharmacology.* (1, 1933; 3, 1928)

Whitehorn, William V., M.D. University of Illinois College of Medicine, Chicago. *Assistant Professor of Applied Physiology.* (1, 1947)

Wiener, Alexander S., M.D. 64 Rutland Rd., Brooklyn, N. Y. *Bacteriologist and Serologist to Office of Chief Medical Examiner of New York City; Head of Transfusion Division, Jewish Hospital of Brooklyn.* (6, 1932)

Wiersma, Cornelis A. G., M.A., Ph.D. California Institute of Technology, Pasadena. *Associate Professor of Physiology.* (1, 1941)

Wiggers, Carl J., M.D., Sc.D. Medical School, Western Reserve University, Cleveland, O. *Professor and Director of Physiology.* (1, 1907; 3R, 1909)

Wiggers, Harold C., Ph.D. Department of Physiology and Pharmacology, Albany Medical College, Union University, Albany 3, N. Y. *Professor and Chairman of Department.* (1, 1938)

Wigodsky, Herman S., Ph.D., M.D. Division of Medical Sciences, Committee on Atomic Casualties, National Research Council, Washington 25, D. C. (1, 1943)

Wikler, Abraham, M.D. U. S. Public Health Service Hospital, Lexington, Ky. *Surgeon (R), U. S. Public Health Service.* (3, 1944)

Wilber, Charles G., M.A., Ph.D. The Biological Laboratory, Fordham University, New York 58, N. Y. *Assistant Professor of Physiology.* (1, 1947)

Wilde, Walter S., Ph.D. Tulane University of Louisiana, School of Medicine, New Orleans, La. *Associate Professor of Physiology. Associate Member.* (1, 1944)

Wilder, Russell M., Ph.D., M.D. Mayo Clinic, Rochester, Minn. *Professor of Medicine, Mayo Foundation, University of Minnesota.* (1, 1921; 4, 1924; 5, 1933)

Wiley, Frank H., M.S., Ph.D. Food and Drug Administration, Federal Security Agency, Washington 25, D. C. *Chemist.* (2, 1933)

Wilhelein, Jane Russell, Ph.D. Yale University School of Medicine, 333 Cedar St., New Haven, Conn. *Instructor in Physiological Chemistry.* (1, 1939)

Wilhelmi, Alfred E., Ph.D. 333 Cedar St., New Haven, Conn. Yale University School of Medicine. *Assistant Professor of Physiological Chemistry.* (2, 1942)

Wilhelmj, Charles Martel, M.D. Creighton University School of Medicine, Omaha, Neb. *Professor of Physiology.* (1, 1931)

Wilkerson, Vernon A., M.D., Ph.D. Medical Arts Bldg., 611 I St., N.W., Washington, D. C. *Biochemical Consultant.* (2, 1936)

Williams, Carroll M., A.M., Ph.D., M.D. Biological Laboratories, Harvard University, Cambridge, Mass. *Assistant Professor of Zoology.* (1, 1947)

Williams, Edwin G., M.D., D.T.M., D.T.H. National Institute of Health, Bethesda 14, Md. *Senior Surgeon U. S. Public Health Service, Director of Research, U. S. P. H. S. Hospital, Lexington, Ky.* (3, 1944)

Williams, Harold H., Ph.D. Savage Hall, Cornell University, Ithaca, N. Y. *Professor of Biochemistry.* (2, 1938; 5, 1936)

Williams, Horatio B., M.D., Sc.D. Box 893, Greenwich, Conn. *Dalton Professor of Physiology Emeritus, Columbia University.* (1, 1912)

Williams, J. W., M.S., Ph.D. University of Wisconsin, Chemistry Bldg., Madison. *Professor of Chemistry.* (2, 1944)

Williams, Ray D., M.S., M.D. 6834 Waterman St., St. Louis, Mo. *Assistant Professor of Clinical Medicine, Washington University.* (5, 1941)

Williams, Robert Hardin, M.D. Dept. of Medicine, Univ. of Washington, Seattle. *Professor and Executive Officer.* (4, 1940)

Williams, Robert R., M.S., D.Sc. 297 Summit Ave., Summit, N. J. *Director of Grants, Research Corp.* (2, 1919; 5, 1941)

Williams, Roger J., Ph.D., D.Sc. University of Texas, Department of Chemistry, Austin. *Professor of Chemistry; Director, Biochemical Institute.* (2, 1931)

Williams, W. Lane, M.A., Ph.D. University of Minnesota, Medical School, Minneapolis 14, Minn. *Assistant Professor of Anatomy.* (1, 4, 1947)

Wills, J. H., M.S., Ph.D. Pharmacology Section, Medical Division, Army Medical Center, Md. (1, 1943)

Wilson, David Wright, M.S., Ph.D. University of Pennsylvania Medical School, Philadelphia. *Benjamin Rush Professor of Physiological Chemistry.* (1, 1915; 2, 1915)

Wilson, Frank N., M.D. University Hospital, Ann Arbor, Mich. *Professor of Medicine, University of Michigan.* (4, 1925)

Wilson, John W., Ph.D. Wright-Patterson Air Force, Aero Medical Lab., Dayton, Ohio. *Res. Physiologist.* (1, 1948)

Wilson, Karl M., M.D. University of Rochester, School of Medicine, Rochester, N. Y. *Professor of Obstetrics and Gynecology.* (4, 1927)

Wilson, P. W., Ph.D. Department of Agricultural Bacteriology, University of Wisconsin, Madison. *Professor in Agricultural Bacteriology.* (2, 1939)

Wilson, Robert H., Ph.D. U. S. Dept. of Agriculture, Western Regional Research Laboratory, 800 Buchanan St., Albany, Calif. *Pharmacologist.* (3, 1937)

Winder, Claude V., Sc.D. Parke Davis and Co.,

Detroit, Mich. *Research Pharmacologist.* (1, 1938; 3, 1948)

Windle, William Frederick, Ph.D., Sc.D. Medical School, University of Pennsylvania, Philadelphia. *Professor of Anatomy and Chairman of Dept. of Anatomy.* (1, 1937)

Winkenwerder, Walter LaF., M.D. 1014 St. Paul St., Baltimore, Md. *Associate in Medicine, Johns Hopkins Medical School.* (6, 1938)

Winnick, Theodore, Ph.D. Division of Biochemistry, Univ. of California, Berkeley, Calif. *Research Associate.* (2, 1946)

Winter, Charles A., Ph.D. Merck Institute for Therapeutic Research, Rahway, N. J. *Research Associate.* (1, 1940)

Winter, Irwin Clinton, Ph.D., M.D. G. D. Searle & Co., P. O. Box 5110, Chicago 80, Ill. *Director of Clinical Research.* (3, 1941)

Winters, Jet C., M.A., Ph.D. University of Texas, Austin. *Professor of Home Economics.* (5, 1933)

Winternitz, M. C., M.D. Yale University School of Medicine, New Haven, Conn. *Anthony N. Brady Professor of Pathology.* (4, 1913)

Wintersteiner, Oskar, Ph.D. The Squibb Institute for Medical Research, New Brunswick, N. J. *Member, Head, Division of Organic Chemistry; Honorary Professor of Biochemistry, Rutgers University.* (2, 1930)

Wintrobe, Maxwell Myer, M.D., Ph.D. University of Utah School of Medicine, Salt Lake City. *Professor and Head of the Department of Internal Medicine; Director, Laboratory for the Study of Hereditary and Metabolic Disorders.* (4, 1940)

Winzler, Richard J., Ph.D. Dept. of Biochemistry, Univ. of Southern Calif. Medical School, Los Angeles 7, Calif. *Associate Professor of Biochemistry.* (2, 1946)

Wiseman, Bruce Kenneth, M.D. Kinsman Hall, Ohio State University, Columbus. *Professor and Chairman of Department of Medicine; Assistant Director of Medical Research.* (4, 1932)

Wislocki, George B., M.D. Harvard University Medical School, 25 Shattuck St., Boston, Mass. *Parkman Professor of Anatomy.* (1, 1924)

Witebsky, Ernest, M.D. Buffalo General Hospital, 100 High St., Buffalo, N. Y. *Professor and Head, Dept. of Bacteriology and Immunology.* (6, 1935)

Wittich, Fred W., M.D. 401 LaSalle Medical Bldg. Minneapolis 2, Minn. *Sec-Treas. American College of Allergists; Chairman, Executive Committee, International Association of Allergists.* (6, 1944)

Wolbach, S. Burt, M.D. Children's Hospital, Boston, Mass. *Shattuck Professor of Pathological Anatomy, Emeritus, Harvard Medical School; Director of Nutritional Research, Children's Hospital.* (4, prior to 1920)

Wolf, Abner, M.D. Columbia Univ. Coll. of Physicians and Surgeons, New York City. *Assoc. Professor of Neuropathology.* (4, 1948)

Wolf, Arnold Veryl, Ph.D. Union University, Albany Medical College, Albany, N. Y. *Associate Professor of Physiology and Pharmacology.* (1, 1946)

Wolf, Stewart, M.D. Cornell Univ. Med. Coll., New York City. *Asst. Professor of Medicine.* (1, 1948)

Wolff, Harold G., M.D., M.A. New York Hospital, 525 E. 68th St., New York City. *Associate Professor of Medicine, Cornell University Medical College; Associate Attending Physician, New York Hospital.* (1, 1930; 3, 1942)

Wolff, William A., M.A., Ph.D. Bowman Gray School of Medicine, Winston-Salem 7, N. C. *Assistant Professor of Biochemistry.* (2, 1947)

Womack, Madelyn, Ph.D. Foods and Nutrition Division, Agricultural Research Administration, U. S. Department of Agriculture, Washington 25, D. C. *Biochemist.* (5, 1947)

Wood, Earl H., Ph.D., M.D. Mayo Aero-medical Unit, Mayo Foundation, Rochester, Minn. *Assoc. Professor of Physiology, Mayo Foundation, Graduate Sch., Univ. of Minnesota; Consultant in Physiology, Mayo Clinic.* (1, 1943; 3, 1948)

Wood, Harland G., Ph.D. Department of Biochemistry, Western Reserve University, Cleveland, Ohio. *Professor of Biochemistry.* (2, 1944)

Wood, John L., Ph.D. University of Tennessee School of Biological Sciences, 875 Monroe Avenue, Memphis 3, Tenn. *Associate Professor of Chemistry.* (2, 1947)

Woodbury, Robert A., Ph.D., M.D. Department of Pharmacology, University of Tennessee, Memphis. *Professor of Pharmacology.* (1, 1936; 3, 1941)

Woods, Alan C., M.D. Wilmer Institute, Johns Hopkins Hospital, Baltimore, Md. *Ophthalmologist-in-Chief; Acting Professor of Ophthalmology, Johns Hopkins University; Director, Wilmer Ophthalmological Institute.* (6, 1918)

Woods, Ella, A.M., Ph.D. University of Idaho, Moscow. *Home Economist, Experiment Station.* (2, 1925; 5, 1933)

Woodward, Alvalyn E., M.S., Ph.D. University of Michigan, Ann Arbor. *Assistant Professor of Zoology.* (1, 1932)

Woodyatt, Rollin T., M.D. 237 E. Deleware Place, Chicago, Ill. *Professor of Medicine, Rush Medical College, University of Chicago.* (2, 1912)

Woolley, D. Wayne, Ph.D. Rockefeller Institute

for Medical Research, New York City. *Member.* (2, 1946, 5, 1941)

Woolpert, Oram C., M.D., Ph.D. Camp Detrick, Frederick, Md. *Technical Director, Biological Division, Chemical Corps.* (6, 1947)

Woolsey, Clinton N., M.D. Univ. of Wisconsin, Service Memorial Institutes, Madison, Wis. *Charles Sumner Slichter Research Prof. of Neurophysiology.* (1, 1938)

Wortis, S. Bernard, M.D. Department of Psychiatry, New York University College of Medicine, New York 16. *Professor of Psychiatry and Chairman of the Department; Director, Psychiatric Division of Bellevue Hospital.* (1, 1947)

Wright, Angus, M.D. University of Southern California Medical School, 657 S. Westlake Ave., Los Angeles. *Pathologist, California Hospital.* (4, 1935)

Wright, Arthur W., M.D. Albany Medical College, New Scotland Ave., Albany, N. Y. *Professor of Pathology and Bacteriology.* (4, 1941)

Wright, Charles Ingham, M.S., Ph.D. National Institute of Health, Bethesda, Md. *Senior Pharmacologist, U. S. Public Health Service.* (1, 1935; 3, 1936)

Wright, George G., Ph.D. Camp Detrick, Frederick, Md. *Chief, Special Procedures Branch, S-Division.* (6, 1943)

Wright, Harold N., M.S., Ph.D. University of Minnesota, Minneapolis. *Associate Professor of Pharmacology.* (3, 1933)

Wright, Lemuel D., M.S., Ph.D. Medical Research Division, Sharp and Dohme, Inc., Glenolden, Pa. *Director of Nutritional Research.* (2, 1946; 5, 1946)

Wright, Sydney L., M.A., Ph.D. Endsmeet Farm, Wyncote, Pa. (2, 1933)

Wyckoff, Ralph W. G., Ph.D. U. S. Public Health Service, National Institute of Health, Bethesda, Md. *Senior Scientist.* (6, 1940)

Wyman, Jeffries, Jr., Ph.D. Biological Laboratories, Harvard University, Cambridge, Mass. *Associate Professor of Zoology.* (1, 1928)

Wyman, Leland C., Ph.D. 5 Furnival Rd., Jamaica Plain 30, Mass. Boston University School of Medicine, Boston, Mass. *Associate Professor of Physiology.* (1, 1927)

Wynne, Arthur M., M.A., Ph.D., F.R.S.C. Department of Biochemistry, University of Toronto, Toronto, Canada. *Professor of Biochemistry.* (2, 1940)

Yonkman, Frederick F., Ph.D., M.D. Ciba Pharmaceutical Products, Inc., Summit, N. J. *Director of Research at Ciba and Lecturer in Pharmacology, College of Physicians and Surgeons, Columbia University, New York City.* (3, 1931)

Youmans, John B., M.D. Univ. of Illinois, Chicago, Ill. *Dean and Professor of Medicine, College of Medicine; Medical Director, Research and Educational Hospitals.* (5, 1948)

Youmans, William Barton, M.A., Ph.D., M.D. University of Oregon Medical School, Portland. *Professor of Physiology.* (1, 1939)

Young, A. G., Ph.D., M.D. 520 Commonwealth Ave., Boston, Mass. *Assistant Professor of Therapeutics, Boston University School of Medicine; Medical Director, Corey Hill Hospital, Brookline.* (3, 1925)

Young, E. G., Ph.D., F.R.S.C. Dalhousie University, Halifax, N. S., Canada. *Professor of Biochemistry.* (2, 1925)

Youngburg, Guy E., M.S., Ph.D. 700 N. Main St., Hutchinson, Kansas. (2, 1927)

Yuile, Charles L., M.D., C.M. University of Rochester School of Medicine and Dentistry, 260 Crittenden Blvd., Rochester, N. Y. *Associate Professor of Pathology.* (4, 1941)

Zechmeister, L. Dr. Ing. (Zurich). California Institute of Technology, Pasadena. *Professor of Organic Chemistry.* (2, 1941)

Zeckwer, Isolde T., M.D. School of Medicine, University of Pennsylvania, Philadelphia. *Assistant Professor of Pathology.* (1, 1934; 4, 1927)

Zeldis, Louis Jenrette, M.D. Brookhauen, Long Island, N. Y. (4, 1945)

Zimmerman, Harry M., M.D. Montefiore Hospital, Gun Hill Rd., New York 67, N. Y. (4, 1933)

Zirkle, Raymond E., Ph.D. Univ. of Chicago, Chicago, Ill. *Professor of Botany and Director, Inst. of Radiobiology and Biophysics.* (1, 1948)

Zittle, Charles A., Ph.D. U. S. Dept. of Agriculture, Eastern Regional Res. Lab., Philadelphia, Pa. *Chemist, Protein Div.* (2, 1946)

Zucker, Marjorie B. Ph.D. Department of Physiology, College of Physicians and Surgeons, Columbia University. (1, 1947)

Zweifach, Benjamin W., Ph.D. Department of Medicine, New York Hospital and Cornell University Medical College, 525 E. 68th St., New York 21. *Asst. Prof. of Physiology.* (1, 1945)

Zwemer, Raymund L., Ph.D. 5003 Battery Lane, Bethesda 14, Md. National Academy of Sciences, 2101 Constitution Ave., Washington 25, D. C. *Excutive Secretary, National Academy of Sciences and National Research Council.* (1, 1930)

Summary of Membership

The American Physiological Society	1090
American Society of Biological Chemists	794
American Society for Pharmacology and Experimental Therapeutics	386
The American Society for Experimental Pathology	328
American Institute of Nutrition	333
The American Association of Immunologists	321
Total members by Societies	3152

DECEASED MEMBERS

1948

Auer, John (1, 3) April 30, 1948.
Austin, Richard Sisson (4) April 30, 1948.
Burge, W. E. (1) March 28, 1948.
Conrad, Ralph M. (2) May 22, 1948.
Ellis, Frederick W. (1) April 30, 1948.
Favorite, Grant O. (6) May 1948.
Haterius, Hans O. (1).
Hunt, Reid (1, 2, 3) March 11, 1948.
Koch, Fred Conrad (2, 5) January 26, 1948.
Lipschitz, Lindley Werner (3) February 1, 1948.
McClosky, William T. (3) January 12, 1948.
Myers, Victor C. (1, 2, 5) October 9, 1948.
Nye, Robert N. (6).
Rose, Anton R. (2, 5) Sept. 23, 1948.
SubbaRow, Y. (2) August 9, 1948.
Wallace, George B. (1, 2, 3) January 15, 1948.
Wastl, Helene (1).
Wheeler, Kenneth M. (6).
Wheeler, Ruth (2, 5) September 29, 1948.

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